

tattactctt ggctcaccag gggtgcaagg gataaattca ttataagttg gctttaaatg 240
 ccgaacgact aaaatacaaa gaaacatggc cggagaacat atccacctta tgcagataat 300
 ctagcagtct aagagtgatg cagactacga attaaagcga cgcctctatt ataagttaca 360
 caaacaccgg gacaagata 379

<210> 20295
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 20295

tgatatggtc tacaccgatg aaaggatcat agtgagtcta taatgaggct aatctgatca 60
 tcatactttg ataaatgcc aaaaaaatg gggctaatac ataggggtgag gatgaaggag 120
 aagcccgtgc tgagactgcc attcctatac agcgaagttt tccaccgacc cagaaatgac 180
 attactcagc caatacccta ccttggttctt actcaccgcc cagtaatcca caaaggccat 240
 ccctaaaaca accacaaagg ctgtcttccg tacttgcaat gacgaacatc acctttatca 300
 cacaccaaga gcaccatcct atagatgaat cttgccgcga gaaagcctgt agaattcacc 360
 ccatttccag tgtcatatgc tg 382

<210> 20296
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20296

agaatctttt ttgaacctga gacntgcgag cacgtgacac tatnnaagac gtctgcctgc 60
 naggatgtga taaaggatca ctacagagct gttactcttt gtaatnccta tactgacgcg 120
 ttataacatt gactggccat tacatgacca tggcaagaca ggaaaaactc ttacatcacc 180
 cagcatagaa cgctggcttc tggteccctt ttactgccct atggtaatcg cttggatgac 240
 agtaccactc ttgcttaaca atgttcttta aacaaatatt gtggacggaa cgtgctgagc 300
 attttttctt cgcaaaagac ggtataccta tcggatagcg gccctgacat cctgtatgca 360
 tgatgccttc atgaaccac tcggaatcgg tattgacgat cgacttatga ttttgaactt 420
 gctgactttg attttgctg agcttggcat atcaaataac ttggaagctt cg 472

<210> 20297
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20297

tgcttggttg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag tttttccaca ttcacaatgc gcgcataaac ccaccatccc ctgttgccca 120
 cctgcaactg agctcgcgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180
 tccccatcaa tcctctcaag ctccacaac atccaagcaa aacaacattc aaacagcaca 240
 agctatcaca gccaagcaaa acagagcaaa ggcagaaaac tctgctcaac acatcaacca 300
 aaatcacagt ttttctcag taaagaccac agtaacaatt ctttcgatcc aattcggttaa 360
 ccgttggtgc gactccaaaa tcttactgga ag 392

<210> 20298
 <211> 109
 <212> DNA
 <213> Glycine max

<400> 20298

cgcatccaga caagaagcat tcaacacgcg ctgacgcat aaagaagaag tggaccaaaa 60
 agtaattgca ggggaaatcc aacagggcct aagtggaggg gtgagaagc 109

<210> 20299
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 20299

tagcttggtg tgagctctag gagtcgttat aggcataaaa tagtcatcta cacgaggagt 60
 gttcttcccc ttttgagact tggcagaaac ggatgatttt ggagttcttc ttaaatactc 120
 aactattctt acaaggtctt cattaaaggt attactttcc tcaaattggt cttgcatttt 180
 tcttttcttg attttgatcat tttgttcaag tacttggttc atttgatggt ggacattaac 240
 aagaaccttc ttgcaaagcc tcaacttggc ctttttgtcc aaccaagtga gccttgaacc 300
 tattaatacc acctccctta acctatTTTT cacaatataa atacacatca ttgtcacttt 360

tgtataacct tcatcaattt gtttac

386

<210> 20300
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20300

ntaacctcat cgtctctcac agtctttaga tttgggagct cttccagtcc ttttggtcgg 60
actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctctg 120
tcctttcttc acgccgcac ccattgccttg cgaactcctt ggagtaccct cgcgttggtg 180
tcaactgaaac ctctgtcgat gaaaggcgtg atgctttcgt ctgatggcac tcctctcatg 240
ggacatcctt cgcattgaaga tagaatcctg attcttcctt ccttctagcg aggggaaccat 300
ttaacagacg cccctccatg ctaggcaaga gttggtgcac aacaaacaat tcttgcgccg 360
ctcttttcac atccccggtc gaatgtgtca tacatggcca aaatggcgac gatcgggctt 420
tcctttccat gatgaaacg 439

<210> 20301
<211> 382
<212> DNA
<213> Glycine max

<400> 20301

agcttttttag tttccaagtg ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60
caattcatca gcgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180
gtattcatag ttgcttccat caagaattgg tggactgttc actggtcctc cttctttctc 240
catgttcac agaatattc tccccacac tcactctgtg attgcgagtg ttggctctga 300
taccaattga aattctgata ccattgggaca gatgtcgtac aggatgtcac gacatcacgc 360
ttcagaacat gcagcatatg tg 382

<210> 20302
<211> 438
<212> DNA

<213> Glycine max

<400> 20302

tgcattgattc acattctccc cttttctcaa gcaaattctt aattcttttt gacatcatca 60
aaatcttcat gatttacatt ctcccccttt ttgatgatga caaccacctg taggttagga 120
gcaacaacaa agaaaaaata tctatttgaa tataatttac tcccccttgg ttttgcaatg 180
attgcttata tgagacagtt gaagatttca ttttttcat atgtaaacia attgtctcat 240
aaagaataaa taatttttct tactatttta tcttttatct ttctctcccc ctttgtcaac 300
atcaaaaaaca aatcatgaat agagaggaga aagatgttac cacttggtga ttacatacat 360
atattttatc ttttatcttg ttgattgcaa tgtatgagaa tgaagtata ccaaaaggca 420
ttataacaat catttaat 438

<210> 20303

<211> 516

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20303

acacagccag cccacccga ctacacaaan acaaccannn nnnnnnnnnn nnnaaaaagg 60
ggngtgagg cgtagnctac gaacacnna accnnacaag cgancnnaa agcccggccg 120
caggcaggca ancaatttat gacatacacg cccaangaac caccgacctc aggagcacgc 180
acgcaagaga tgaacacgct agaacgaaac acgcccacaa tacacacaga agagccgagg 240
accacgaagg cccaaggaaa gaccaaacac caaacgacga ccaaaccaaa cgacacccaa 300
gaagacaagc cacaaggaga caagagagga gaagcacaca acaacacca cgaggagaaa 360
aacaagagga cgcaacagcg gacaaaagaa gaacaacagg aagcaagcca gcgaacacac 420
acgacaccaa gaaaacgaca aaccggaaa aaccaacaag acagaacctg ggaccaccaa 480
gacgcagaca aaagaacaca aagcacaaga cgggagc 516

<210> 20304

<211> 378

<212> DNA

<213> Glycine max

<400> 20304

agctttttat ctaaggaaca ttcttggtgg tgaagctcct tcttccatgg cttattccct 60
 agtggatggc gtctaccatc tcctcttctt ctttgctta cgctgcatct ccatggtgga 120
 aatcaccat tgaaggacct cattgaagct caaagattca gcctccatag aagctccaca 180
 agcaagcttc catcaatgaa taacatgatt ctttacaatt tccaccgagt aatcttgcta 240
 tagaagctac atttgattct ctatggttca aatttcttgt tcttgttctt gatcttgaac 300
 catgaattgt gttgagtaca cgttcctttg agttttgact tgttattttt tgcggctgaa 360
 acctacacca taaaatta 378

<210> 20305
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20305

aaatgaggaa taccttttgc atttacgcgt ctacatcgat aggcaaactt gttactgata 60
 ttcttcacaa atgttaagac ccacgtactt tctgtgtacc ttgcgttatt gggaacaaca 120
 ttgttaagaa tgccatgcta gatttatgag catgagtgag tgccatgcct ttgtctattn 180
 tcaattatat atcctatgga ccttggaat ctacatatgg cctaattcat gtggcaaata 240
 gaatagttgc ttaccctaca gctttcatat aggatgtact gatgaggggtt ggtgaactta 300
 ttaccctgt tgattattat gtgcatgata ttgaagaatg att 343

<210> 20306
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 20306

tcttgcttgt acattgcaca atgttggtgt tcggatgacc ttatgactta tgcatgctgc 60
 attcttgtgg atcttgcatt cacattacat tattggtgac attcttttca ttactggaaa 120
 gcttatattg ttattactgg ggaagcagca cacatttatg gccatcgtcc gtgatagaaa 180
 ggaatcataa tggatggata agataatc ataaggagcc atcccacttc ttgaaccata 240
 taattgatca tatggctggg ctaaccctcc tggggatgca ttcatggtta caggccctga 300

gtattttaca acaaggcgta aggatccatc tggatgaatat atgctcaaac ctctccgttt 360
tgattgg 367

<210> 20307
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20307

tgggggttggt tgtttttttt ataaaaaatg tccgacaact tttagattct tttgacaaaa 60
atgccttact cttttatctc tcagatttat agcacctgtg aactttgact ggattgagaa 120
tttggctagg tcttggttga cgtgtaacgt gtgacattga gcctagatta taataaatgg 180
aaaccaagta gcttctgtc aaattcaaac tcgttgatga aaaactatgg ccacattaat 240
taagactggt tacaagggt tttgattttt agaagctgat agttgaagtt gttaagagaa 300
tctaagcttg cttagattct gcaaatcctg tgacaaaaca acagcaagag gtgacgaaag 360
aaatagtcaa tagtgaagga ttccgctgat gggaaggaag acaaangtgt ttgactcgga 420
actagaaagt 430

<210> 20308
<211> 394
<212> DNA
<213> Glycine max

<400> 20308

agcttctagt cgtccataga cctcctctgt ggtacggtct agcaaacggt gcctctgtgc 60
attcatcgca tccactaaca gacgttgagc gccgtccaac tgatggtact cgtcaccacc 120
accacctgct ccagccataa ttcaacagga aaaaaaaaaat gtgcaataaa aattattaag 180
gtttcaggac ctcaaacac tctactcacg tctcttagat ggtagtacac tcgtgtttaa 240
tgctctcaat aggcctttgt gtaatgtatt cctcttggc ttttaccact cgtgtttcct 300
cttaagttcc tggatggacc aaattagaca cacaaggtaa tataaaataa aaggaaagac 360
aatataatga tcacaaacag atttgatttg ggat 394

<210> 20309
<211> 387

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20309

 tcgccggatg atgccgatcg aacatttccc aagcgacatc atccaattgt tcttcaggga 60
 ttgaatagaa taaacaatgg ccggtgtcgg tcaactatcg gccccgactg atataccttca 120
 gccgacattg cgcaatttct ttacaaaacg ctggccgaaa atgttttttt acggtagagg 180
 aagttttttg tttttgggtt ccctaaaaaa attgcaatgt aggtcgggta gggtttttcc 240
 gtgcgaagct caacctgang gttgtgcttc gggcgacact gacatgttct catttagtcg 300
 gccaaaaaac cgttacccaa ccccgaggagg aaaaaaacca tctttcaca aaatggatgg 360
 aaaaaaaat gatacctgac gtcggcg 387

<210> 20310
 <211> 387
 <212> DNA
 <213> Glycine max

 <400> 20310

 agcttattct ttttggcctt gcaagcgaag gagtcacatca caaccaacac gcttacactg 60
 cagcaagatg tttgtacctg gtaattgggt cagttagctt tttatatcag aaaatattaa 120
 ttgttaattt tgtagtttt tattaagagg gaatcaaact cgagcctttt tttgtcttta 180
 ctctcttttt aacctctcaa tcaattttat attccgaatt gggtttggta cttaattaat 240
 actttgtggg tcttctctt cccactatg tatttcattg catgtatagt gtatacaact 300
 tagcaattac gtaacgtaat atatatgtac tgtgttgtgt tatactggga tgtaggattt 360
 ggagaagcat caccagaagc aaaggct 387

<210> 20311
 <211> 445
 <212> DNA
 <213> Glycine max

 <400> 20311

 tgatctgcta tagggttacc atcagattcg gatgcattat gctgatatcc ccaagattgc 60
 tttcagaacc caccacgtcc attacgagtt taacgtattg ttgtttgggt tgtgcaacgc 120

accgtcgctcc	ttccaagcca	ccatgaacct	gctttttcga	tcgtatctcc	gccacttcat	180
catcgtcttc	ttcgacgata	tcctcatata	cagttcttct	ttcgaggctc	acctgagcca	240
tttgaaaact	gcttttcagg	tgctgcttga	caatcattct	gttttgaaat	tgtctaaatg	300
tttctttgtg	cagcctcagg	tggagtacct	tggacacatg	gtttcttgac	gaggagtgga	360
acctgtggct	tctaaagtcg	cagccattca	tcaatggcat	gttcctcatt	ccatcaaagt	420
cgttcgcac	tttctagggc	tcgca				445

<210>	20312
<211>	389
<212>	DNA
<213>	Glycine max

agcttcttag	tttcagatga	tgcagatggg	tttgtagcta	cctcatgcac	tcctctaattg	60
actatggcat	catttctggc	gctaaactgc	taggagttgg	aagccatctt	ctctattaaa	120
tttctggcct	cagcaggagt	catgtctcca	agggctccat	cactggtaga	atctatcata	180
cttctctcca	tattactgag	tccttcataa	aaatattgga	gaagaagctg	ttctgaaatc	240
tgatggtggg	ggcaactggc	acatagtttc	ttaaattctct	cccagtactc	atacaggctc	300
tctccactga	gttgtctaat	acctgagata	tatttctctaa	tggttgtggg	cctggaagca	360
cggataaatgt	tttctaagaa	tactctctt				389

gaaggtacaa cagatgtaaa aagatctagg ataaatacat tgactcgtga atatgaatta 420
 tttagaatga atccaaat 438

<210> 20314
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 20314

agcttgata tattgtttgt gaaggacaaa agtgacttag tgataaagaa tacttgggtc 60
 ttaatcttag gggaagatta agtgtagtgc caggagtgc ctatagagta ctcatgttag 120
 ctagaagtgg catagagaat acttgattgt aatcaaagaa ttaattagt aaatccttca 180
 aagtttgaag gaaaactgga cgtagcccaa gagttgggat gaaccaatat aaaacttgtg 240
 ttttctttac tgcttctata taactagtgc ttttccatat gttactccta cactactcta 300
 tccaagtttt gtgaactgat tttctaagca cataatgatt tcaaaccctc tggacgaaac 360
 ccaacgtcta ttaatatcta tttgagaaa 389

<210> 20315
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20315

ntacagaaat aagacacaaa ctatcttgca caaaaacatt ccttcattta ttcttgtaaa 60
 actttctata attctttgta taaacactaa gctctcaaaa catctttgta aaccttgaga 120
 gaaaagacta aaagtactga gaaatatata tgtttgcaat atgatatgat attagtctgt 180
 gtgaaaacct ccaacaaatc ttattgattt gtctagaacc aacagtggct aagggtgagg 240
 aaccttggct ggggttatag ctaacactga attatcgagt agatatggga gcaagttagc 300
 ataggacacc gaaattgggg tgaattctat aggctttttc gttggaatat tccctccctg 360
 gttggcatct tggtttgtgt taaggggtgt gtttggcatt ggatgtgcgg caggcaggct 420
 ctgtggttga t 431

<210> 20316
 <211> 394

<212> DNA
 <213> Glycine max
 <400> 20316

agcttctaga gcatgtatct ttacttgaca actatcatga gttgacagct tgtagaacca 60
 ttctgaggta ttctttttga ggttcccatt ttgaggaacc tttctaata gaattctgaa 120
 ggatcattac aatagttatt atgatgtttg ctgagaaaaa aattcatact tgatagattc 180
 tgttgatgaa gttcatgttg ataaaccttt atgaagtagt acaacttcat caaacttgac 240
 atttcttcat agctgcaaac atttataagt agattgcttc aaaaacacta agtgaagatt 300
 caattgttgg tgtgatagtg ttttgtccat agttagacag tgtagtatct tcagacttct 360
 attatgatgc ttctcatcaa agcatgaatc gtat 394

<210> 20317
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 20317
 taatacaccg ccactacatc taataaatga aaaattatta atttaatgca tactatgcta 60
 ctcatgtaac aatgaatttg agattcatat taccttgtaa ccaatgaata cgatggtgtc 120
 cgattaactc ttgctgcaat gaagggcata cgataccatg cccaagattg caacaatgac 180
 gcacagccac ccattggtttt ggcattcaagg ttagtggtctc tacacaattc tttgtacaat 240
 gttgctagac aagcagagcc ccaactatat cacctgactc agttgagatc agcaaacaca 300
 atgagatata tcaaataaac ccaatttctc atcttggttcg gcattaaaac cccaccaatt 360
 agccgcaaaa tgtaagcttt acaattctct tctaactgtt gttgtgttgg ttctgaggga 420
 agtgcaacat attatcttgc aatc 444

<210> 20318
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 20318
 ttgctttaca tcccgatcaa gagctcggaa aagggatgct aatactgctg cactcctact 60
 gtaatgactt gcctcaatca aattcgataa tcaaatagata tacataaaat gaactctcgc 120

acctgatgta tctggcatca aacagtcgcc tatcagcatc atgatatgag ctatagcatg 180
 ttttgcaatg acaacatcac cagcattaac tggaagttgc tgacaatttt gctgcgacca 240
 acttagataa atcattttac cctttacata cttaccatgt ggagtgtgcc ttattttatgc 300
 ttgacgagca acacgtacat caccggcgat gatactagtt atcaacagtc catcaatcct 360
 caggcccaac tgtatgggtca ca 382

<210> 20319
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 20319

tattaaagaa tacatttatg ctggatttag aggtcttatt gcaaaataaa ttatcataaa 60
 tatcatattg ggccttaaaa aaagcttata gccttaaata agtttgattc gcctcttata 120
 aagggtaaag tctatctatt tttatctttt tgtctcatgt atgagtaaca atgattttta 180
 tatttatatt tacataaagt ttgttttctc attggcccat taaccgatta aactatttta 240
 tgccaaatta tacttttttg aaatctttaa tatgaaataa gttaaataaa ctaatagatt 300
 aaacttaact tccaaaaaga tgtaatcaaa tttgtgtact tagttgccat ggaattcaat 360
 gaattccttt gaaacttggg tgcgagggtt gagggctcta aaacgaaacc agaaatgcag 420
 gaaggcttac acagacaat 439

<210> 20320
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 20320

agcttgctca aaacaaaatc taacattccg atccactcaa ttcatacaat ttctcattca 60
 actcaatcac aacacttcat ttcatacgaa atcaaaccac tgaatatcat attcaatcag 120
 ttcactgttc aaacatgctt ttgtacaagc tacaacact aaaacaacat aaatttataa 180
 gtctggaatt taaaagacta ataaagcata aactaaataa ctgataaaat aaaactgttc 240
 ataatttgca aaaaatttta aaaaaaaact atgcaaaatt taaaactctt ggtcatccta 300
 ctgctgggtc tctgcatgct cgttcagatc cagcactaga gcagctgggt gatcctgtga 360

aatgggatgc tcttgetcca atgct

385

<210> 20321
<211> 439
<212> DNA
<213> Glycine max

<400> 20321

tgtaggatta tggcgtaccc atcacatgtg gtactaggtg gcggtcgggc gatggtgcac 60
aacaagtttt ccacatgcac aatgcgcgca taaaccacc atccccgtgt gcccaacctcc 120
aactgagctc acgtactccc acgtagccca tatgctcgtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240
tcacagccaa gcaaaacaga gcaaaggcag aaaactttgc caaaacacca accaaatcac 300
aacttttctc acttaaagac ccagtaaca attccttcca tccaattcgt taaccgttgg 360
atcgactcca aaattttact ggaagtctat agtacatgaa cctacattgt gaccgttggg 420
atctactagc aaacatcca 439

<210> 20322
<211> 397
<212> DNA
<213> Glycine max

<400> 20322

ttgcttctat gctgcaccaa cgactatgta ttattaactt agcatatcta cactttaaca 60
tatagcatga aatgaagagc ctgctagatc tgactaccta taagogaact ttacatttta 120
tatataaata taatgaacta ttccttgatt caatacacgc tagcaggaca ccgacagatg 180
ctttgaaagt ctcataccga tatacatgtt ccaggatagt gacaaccatt cgtgctcaac 240
gacgcgttct accttcctta ggtatatgca gcagcacatg atcatgtata atcttatata 300
tgacaattgc tagttatata tgttgagga aatcttcctt aagatgtaat ttctattggt 360
agacgtccgg gatatcaaga aaatgtaatc aaaaaat 397

<210> 20323
<211> 439
<212> DNA
<213> Glycine max

<400> 20323

ttgataaata tttatatgaa atatattcac ttaaaatgct atatatttag ggtaataatg 60
gatggagaca ttatacgttt ttgttactaa agattttatt taactaaatt taaattgttc 120
gtataaacia tttaaactaa ttatatgatg tattgtatta attaataattt aataatactg 180
cattaataga atatatatat atatatatat atatatatat atatatatat atatatatat 240
atatatatat atatatatat atatatatat atatatatat atatatatat atattttacgc 300
atataaatat atatagaatt ttttgttttt agtatttcgt atattccaca actagatagg 360
atctctatag ataagagat atgtatatgg cattatatat ataacattga tgatagatat 420
gttctctacc gatgtctttt 439

<210> 20324

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20324

atgtctttat ttgtgtggga cggcgggctc tcttcgactt gttgtattcg acgctaactc 60
ttaccgtaag attacttgcc gcgacgctag tgatcatgtg cgtactgatt ggctctttac 120
ctggactata catcccacga ttgtcatggg tgtataacat gctggaaatg tcgacaatgt 180
gtatgactac tgcacgcctg ccgtgattag cgatgaacca gcatacaacg tgccgtctta 240
tactggcact agacaaacag cgctgtccca tgagggactc ctacgctgat atgtccacca 300
cctgtgaact agatgtatat cagcacataa tcgattctaa cgccgttga ccataccgca 360
cggctgatag tctctcttcc agaattatcn 390

<210> 20325

<211> 409

<212> DNA

<213> Glycine max

<400> 20325

ggttcgaggt acttaccgct tgaagatcga agatcgatga agaacgaatg aagaacgtcg 60
aagaacggtt gtttcctttg cgagattcct cacggaaaac gttacggaaa cgtttcggaa 120

gcgcctcggc ttagattttc ttcacggaaa caatttttcc aagcaaattt gaaagagaga 180
gaagtgccta aggggctgga ccccttcctt cttcatttcc tcccctatct atagcaaaat 240
aggggaggtg gttgcccggc agctcgccca ggcgagctca gctcgcccag gcgagcaggg 300
ttgcttcctc cagaagcaac cgccttctgg aggaatcttc tggagggccc aagtgggcct 360
gggtgctatt tgcaccccca ttgttactaa gtacaccccc ctctgcctt 409

<210> 20326
<211> 392
<212> DNA
<213> Glycine max

<400> 20326

tagcttatca cttttacatt aaaaaatata tatttttctt ttctagtga tatcattaca 60
tatgtgcgtt gttgaaattt aaatatgcc a ttctactgtt tatggaaaaa tatggagaaa 120
ttaacgagga aattaagtca aaagatgggt aaaataaggg aaaagtgcaa tgcagtcgca 180
aggttggaat ttatactgtg ccataagccc ataaccataa gagtaatcat atttcaatat 240
tccaacggct gctacatctt tttttccgaa ggctgctaca tcttattatt gacacttatt 300
acttttcgag ttttaataatt atttggtgac aatataaaat aatcatcact taaataaact 360
attattgata taattaattc taaataatta tt 392

<210> 20327
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20327

tctgtggttt tttatcagca aagataaata tattcatata tatgaaaaga gtaccagagg 60
tactttaata cagctgtttg gtttctgaga tttggttcct aaacagatta gattaaatct 120
agaaaggagc caaaaccagg cacctattac acttttagta tgtagcttaa accagaattg 180
catcatctac taatacataa accttgctcc aagattacta ggagagataa tctgttttgt 240
tgaaaagtfg cacatgggcg tctctagtgc ttacttatgt ggtgtatctt gttagtgtgt 300
tgttctgggtg tctgtaactc ttgagggcta caacatctca caccttgtga ccgttggtca 360
acttctcttt tataaaaata ccatcccaat tntctctatg aatttgaata agattcatac 420

aataatagca tc

432

<210> 20328
<211> 378
<212> DNA
<213> Glycine max

<400> 20328

agctttaacg taaacaaaa caccaaccaa gaaatgaatt ttgcagcgag aaagccttag 60
aattcacccc aattccagtg tcctatgctg acttgctccc atatctactt gataattcaa 120
tggtagccat aaccctaacc aaggttcatc aacctccatt tgtccgagaa tactactcga 180
acgcaacgtg tgcttgtcat ggagaagccc cggggcattc cattgagcat tgtaggggcc 240
tgaagcgtaa ggtgcaaggt ctaattgatg cgggctggct gaaatttgag gagaatcgca 300
tgtaaactct gacattaaca agagatgcc aacatgggtgc aattttgaaa gttgttggtta 360
gatgtctctg atgactca 378

<210> 20329
<211> 431
<212> DNA
<213> Glycine max

<400> 20329

tcacatctcg tattecgctc attctgatct tagtataaag gtaaccgatc tacaatgtat 60
aaatgaggat tcattgcatg agtaatgttt gtaagagttc agtgtaatga tgaaaaccag 120
aaaggtaaag tgaacaaatc ttgtgcaact atgatcaa atgggtccat ccgttatata 180
agcatatcta gacctatttg ttttgggata tacagtttac tgaccatgag attctagttt 240
tggaacctatg gttttcaggt tgaagtaagc atgtagctgt gtcaatatat gctgaaaaga 300
cttccactgg atctttcccg atttccctta ttattatttg ttgtggaatt tcttgaatgc 360
attaatgtca agtatcctgt cccaaataat aaattcatat tctctgttca ttatgcttgg 420
caggcgaggg g 431

<210> 20330
<211> 372
<212> DNA
<213> Glycine max

<400> 20330

agcttgtcac ccagctcgcc caggcaagcc aggttgcac ttccaaaagc aactgccttc 60
tggaggaaca tcctggaagg cctagtgggc ctggtttcta tttttaccct tttttagtaa 120
atacaccccc atttgctttt ttggtgatt atttttctgt aatgttaca aactttacga 180
atttcgtaac gatacttggt ttattttcgt aagggtacgg aacctttcgg gtcattgta 240
tactcctttt ttagctttcg gaatgttacg gaaactcacg gattgcgtaa caatacttcc 300
ttttgatttc cgcatgtta tggaatttca cggattgcgt aacaatgctt ccttttgatt 360
tccggcatgt ct 372

<210> 20331

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20331

ttnggacaag cctataccaa ggctcaaata aacttgaaag ttctagacaa ctttcccaag 60
gtgtggaaga caacaagcac ccaaaatgct agagacctaa agaacctttc ctaggatgaa 120
ctgttggggg ttcttagagt ccatgaagcc aacctttcga atagatatca tatgtgtcat 180
accctaattt cgtccggggg tcattatttg atgatataca acctttgatt ggccgcttcg 240
agatactggg caccctttgt ttacaatat gtgaagtccc gagacgtgcc aaaaaatcaa 300
aaggaagcag gcttacgcga tccatgaaaa ttccgtaatg tgacagaaat cgaaatgagg 360
tgtttatcgc aatccgtgag ttttcgaaac ttcttcgaaa gctaaaaaag agtaaattca 420
taatctgtg 429

<210> 20332

<211> 387

<212> DNA

<213> Glycine max

<400> 20332

agctttacaa cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60
ttaacctagg gaattaaaa aaaaaactta atggctgagt gtaactgaaa ttgtggcaac 120

caaaagtcac ccccaacagc caacaagtca gccaccattt ggtctcccaa aagggtgagg 180
 cctaggttgc caattgggcc cttattacaa cttgaactaa acctactaaa gccctttaag 240
 ttgattaacc caaaacatat ttttggtcag ccaactttac aaggattggg ccattattta 300
 gacaaactaa acactctaaa attgagacaa agtgggtgcca tttagtcctc ctccatttgg 360
 gccatgatac aactcacaac cttggac 387

<210> 20333
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 20333

tgtggattac ggggttggtt tgcatgtttg gcagactttg aagaagcttg tggttaaagg 60
 gtctgttttg tctttctcat aatctttgaa ggagcttgta gttaaggggt ttgttttttc 120
 tttttcacia tatttgaaga agcttggtt tgaggtgctt gtttccttta attcagctaa 180
 ccaccttttg gttgaattcc ctaaaccaat aataagtgtc attttaagta attaacatat 240
 aaaagatggt aactaatgta aataaagatt agagacttac caagttactt tccttattag 300
 ttgctgcac tttgtcattc ttcgtgtgtt gagggataag ttctttctta gcttgattga 360
 ataacatgta ctatgttgtc attcctagtg actctgctgt caagaactgt gttgttattg 420
 tggcgtccct aaattaatga ct 442

<210> 20334
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20334

agcttcttgc ttgaaaataa gatgacttat aggagtaatt ttcttcccat acaagtactt 60
 ggatggaagt atattttcaa gtaaattccac catgtaatat tcttgtttac tactacttca 120
 taacctactc ataaaaaact attgaatcta ttgactaaca atttttattt ttcacttttc 180
 tttgtcaaga gtatgttggt aggtctggat gatcattcat acctatatta ggttttgatg 240
 attaacaaag aatataagt gttgatatat taatgatgag tttacgacaa gtggatatga 300
 tcaatgttat taacgagctt aactgttacg acaagaaaaa aatactttgt ttattattaa 360

ctagcatcta acgcgcta atcaagagca t

391

<210> 20335
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20335

tgcattgtcca agtttcttgt gccatacca gggatttctt ttgatagata atagacatgt 60
tacatcttga ttgatagtt cactaggatt aatcttataa agttttcttt tctctttagc 120
agtaaaaatt tgggtcccat tttcgtgttg gatgacacac ccacctttgc tgaaggaaac 180
atcaagtcca atctcacata attgacttat gctaagcaga ttgtatttaa gtcctttaac 240
aaatagtaca ttctcaatgg gaggataggg atcaatactt atctttccta ctctttctat 300
cttccctccg aaaatgattg ctccaccatg catgagggtc agacattgga atatacat 360
ttctcatgtc atgtgatgtg agcagccact gtccagggtc catgattggt gtgtttntgt 420
tgtggttgaa tatatccgca acaag 445

<210> 20336
<211> 393
<212> DNA
<213> Glycine max

<400> 20336

agctttatgc ttgcttctta atctttttct ttcttggtcg ggttttagcc ctttattcca 60
gaaaaaaaaa aatacaatat ttgaaagaga aagattcggt acaaacacca actaaaatat 120
aaaatatggt gcttaacttg ctttactttt aacctgctga tgtctttgaa gatagaaaaa 180
aaaatgaata ttcacgactc aaatgaagta aagaaaaaga aaacagaata taatggatag 240
aacattatat attttgtacg tgcagtaaag ggggcgaata aacacaaaat tgaagaaagt 300
agcaagagag gggcgggtgg tgcacaatcg aaatcttgaa gaggaaaaat acattatatt 360
cgtgcatatg cttattagat aggggggggat act 393

<210> 20337
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20337

ctgttggtctc taattntaaa ctttcaaagt tatcagatac ttgagtagaa atttctaaag 60
aattatctat cttttcttca tgtttccctt gaagttgttt ataatctttt gaaacactat 120
tgaagtcctt tctcaaattt tgataagcta tggacaaagt ggatgagttg gagagaagtt 180
cttgatattc taattgaaga gtttcaaggt tgtttatatt tacctcttca tctgattctg 240
aattagatcc ttctgatgta gtgtctacta tcaaacatag gtaggctttt tcttcttctt 300
cttttttctt cattggatgg tgtgttgctc atctctttcc atgtgcttat caataatttc 360
ttgttctttg gtttgaagta ctttttcttg tcagttattt tatcaagatc tggacattct 420
gacttgaaat gtcttagttt 440

<210> 20338
<211> 392
<212> DNA
<213> Glycine max

<400> 20338

agctttattc tatctgcaat gtttaacaac ttaaaggacc aatgtctgat tctccccact 60
atcttctcca caagaggcag gtaatgatgg acattgagtt tcttgcaaga caaaggaacc 120
cccaaatac ggacaggcag agatccctct tcaaaccttg tgatcttctt tataactcga 180
atgatgtcac aattcaagcc accacaaaac accttacct ttgttggtt aatctgtagt 240
cctgtagact tacaaaagaa actgaaagcc tttagaatca tctctataga cttctcatca 300
cctctacaaa gaagaagaac atcatctgca aagggcaaat gagtaatcct caatcgctca 360
cattggctgt gattattaaa gttaggatct ct 392

<210> 20339
<211> 440
<212> DNA
<213> Glycine max

<400> 20339

tgtaagacaa aatacgagat ggaggcgagc aaggacaaaa tggcgttgct gagaagggtca 60
tggtgatgct ccttgatggt catcacgcca gtttttgagc tgctgcctcc agactcgacg 120

acatcactat taaccaacag atagaagatg ccacaataat gttattgttg ttgtagatgc 180
gcattctcctt ttagtgcatg acaccgaggg atgcacttct cgacgggtcct caacaatggc 240
gatgttgctg caattttgta gatctacctt tttcgaactg ttgttttagg gaggatgaga 300
ggtgaagggtg gagcaatcat tgagtgaggg caacatgaat aaacaatgta taccacaact 360
aggatttttt aaaggggtgaa actgaagtgg tcttccatgt gtccatattt acttctaagt 420
atcttctgct accttctcac 440

<210> 20340
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20340

agctttgatg atatggtctt caccgacgaa aggatcaaag tgggtctgaa aagaggcaaa 60
tctgatcatc ttgctttgat aaatgcaaaa aaaaaaagt tggggcaaat aaagaggggtg 120
aggatgaagg agaagcccggt gctgtgactg ccattcctat acagccaagt ttcccatcaa 180
cccaacgatg tcattactca gccaaataacc aaccttctcc ttaccaccg cccagttatc 240
caaaaaggcc atccctaaaa taaccacaaa gtctatcgtc cgcacttcca atgacgaaca 300
tcaccttag caaaaaccaa gagcaccaac caagaaatga attntggagc gagaaagcct 360
gtagaattca cccaattcc agtgtcctat gctgacttg 399

<210> 20341
<211> 443
<212> DNA
<213> Glycine max

<400> 20341

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60
tgccattcct tggattatag ggttgaacca agctcatgct tttaaaaaa ggttcatcaa 120
gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180
acatcactgc ttcgtctact gccaaacaca tttaggatta ttgatgtcct tgttacttcc 240
agtttcacct tgacaaagat gtcgtggacc atgttgaaaa tctaaattga ttcaacccca 300
tatcctgcgt aaaaattcgc aatcttcaac tgtacatcat tcgcatacat ccatgctttt 360

cattggttgc attgctcatt gcattctttc cttgaaaaag aaaataaaaa taaataaata 420
aataaaataa aataaaaatg atc 443

<210> 20342
<211> 371
<212> DNA
<213> Glycine max

<400> 20342

ttgcttgaca cccagatcac ccatacgagc aaggttgctt ccttcagaag caccagactt 60
ctggatggcc caagtgggcc tggttgctat ttgcaccccc cattcttact aagtaacccc 120
tctgcctttt ttaggagata atttattcac aaagttacgg aaacttatga ttttcggttac 180
gataacttgtt ttctttccat aatgtgacgg aaccttgctg attacataat catccacttt 240
ctgacttact gaatgttacg gaacctaaact aattgtgcaa cgatgcttac atttaactat 300
ctgagtgatca cggataccta cagatagtgc ataataatctt cttttatctt ccggcacgat 360
ccagaattca c 371

<210> 20343
<211> 434
<212> DNA
<213> Glycine max

<400> 20343

tagagaatac taagtcgaag ttttgaaggt ttttaatgct gggttgatg ttgcttccag 60
aggcaagcaa agaataattga gtggaatttg tagagggtta aaatataggg tgtagaagct 120
tgtagatgat tcaaaagaaa gaattccaaa attgtgtgct tgatcttaat ggaaaaatcc 180
tgccagtgtg ggtattggat gtagccaagg ttaggggtgtg tgttgtatct ttatttactg 240
ttctcattta gttgtagcag ttacataatct attcttaact ttgaaaaacc tttgtttcac 300
aaaagcttta ctcttatatt tcatcaaaag atttttacaa agtagatata atgttcagaa 360
gcaacatgca ccttgtaaaa gaaaagtga aatcaaaata tgtgagataa cataattggg 420
gatatgaaga gtag 434

<210> 20344
<211> 387

<212> DNA
<213> Glycine max

<400> 20344

ttgcttgtag aggatgcttc aatggaggaa aagaaagatg atgagaaaga gagagggggg 60
gagcatgaaa ttgaaggaat aaaaagggag agaagttgaa atttgagttg tgtctcacia 120
gactctcatt catcaaagtt gcaacatgtg ctacacatgc ttctatztat aaattaggta 180
gcttccttga gaaactttct tgagaaaact ttcttgacaa gcttctttga gaaaactttc 240
ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac ctccttgaga 300
agcttcctta agaagattcc tatagaagct agagcttagc tacacatacc tctctaatag 360
ctaagctcac ctccttgaga tgagaag 387

<210> 20345
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20345

ctttgattnt gacttgatag aaccttttct taatcagagg tgtttgattt gatcccatgt 60
ttaataaaat gaaaagttct gtttgaatca atactctgat atcctatcat ggaggaaata 120
ggatgaattc atgaagggat gcttatgttg tgcacgacac aaatacattt tacggacatg 180
agagcccgga agatcgtctt ttcttacttg caacatttgg cagcacagtg ccccatgtat 240
gcatttaaga agacaataca gaccttccga ctctctgtga caaaatgacg agaccaaatg 300
caatgcatgc gcgacaacac aatacaaaaca taaacgcata aaaacgcatg gttgatagca 360
cagaagagga acgtacaagc atgtcaatat catcaaaca ttatacaaca gagatgcaca 420
tgagcatgac actaaaaata 440

<210> 20346
<211> 363
<212> DNA
<213> Glycine max

<400> 20346

ttgcttttcc cccaattttc taaaaatagg gggagatgtg aagtagaaaa gggttcagcc 60

ccttatgcac ttctctctct ctcgaaatag ctgaggaaaa ttagttctgt gaagaaaatc 120
 taagccgagg cacttcata acgttacgt gacgattccg tgagttatta cgcaagatt 180
 ctcgaccgtt cttcaagatt catcgttcgt tcttcgtttt cttcagtctt gaacgggcaa 240
 gtacctcaaa ccgagctttt caattcattc tatgtaccgg tgggtggcca cttttgttt 300
 catgtgttgt gtattctcgt ttccatttac cttatatgcc ccttcagac gtgcctaagc 360
 cat 363

<210> 20347
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20347

tctcccncaa ttttctataa atagggggag aagtgaagta taaaagggtt cagcccctta 60
 ggcacttctc tctctttcga atttgcttag gaaaattggt tccgtgaaga aaatccaagc 120
 cgaggcgctt ccgtaacgtt tccgtaacgt tccgtgagt gatttcgcga aggttttcat 180
 ccgttcttcg ttcttcaacg ggtaagtttg cgaatccgag actttcaatt cttttcttgt 240
 tttttttaat ctttcatctt tatttcgttc attttcgatt tcttttcttc cgtctttaac 300
 gcgcttttac cgtttattta agccgttttc tcaccttaata aatgataaaa tgaatttcaa 360
 ccgatcattt gtgttgtaat ctcatthaat cacttttaaa acgaaatcta accgaccgtt 420
 cacgctataa cctc 434

<210> 20348
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20348

agctttgagc caatatcttg actcaccgta aaccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg aagcaaaaaa aagaagagaa ggaaaatttc caatcaaagg aaaaaagaga 120
 ggaaaggaaa ttcccaatca aagagtggga gaaagcaaaa agaaaagaaa gaaaattcct 180
 aatcaaagaa tgggagaaag aaaaaagag agaaggagaa gaaggaaaga aagctcctga 240
 tcaacgatcg aaagaaaaca gaagaaatgt gcagagaggt ctttggacca gacaatatct 300

gaacaatacg gaattgtcac caaatgaaca aaagaaagaa aaggaaacca taacctaaaa 360
gtggtcttct ccctttgatt accaaccaaa a 391

<210> 20349
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20349

tgcccagaga atgagtccac ggaggaaatg cttaccacct caaaagactg gaaagcgggt 60
tctaatact cctctgcggc ttccacataa ggcatagagg acgggcagct caccaagagg 120
tcttcctcgc ctgacacgat gaccaaagtc cctccacta cgaatttcaa cttttggtgg 180
agtgtagagg gaacaactcc cactgagctg atccacgggc gcccacacag acagctgtag 240
gggggggttaa tatccattat ttggaagggtg acttgacagg tgtgagggcc tatttggtact 300
gggagatcga tctctccctt aacctctcgg cgggtgcggt caaaggcatg aaccaccatt 360
gaactcggct ntaagtggga agcattgaat ggtaatttct ccaaagtgtc cttaggcatc 420
atgttttaac tggaaccat 439

<210> 20350
<211> 385
<212> DNA
<213> Glycine max

<400> 20350

agcttctctt ggactttaag caagcagcta actcgtcttt taagaccatg ctatgtgctc 60
gtgattgggtc tctctctttc ccttcgaagc ttgagctcat tgttgctgcc ccacaaagct 120
ccacgaaatt tgtcacgacc atgctcttcc ttgcgagccc tcttggtttc ttgttcaagg 180
gctcttgagg tagctgcatt ttcttcttgt aaccacagcac actctttccg aacgtctgta 240
tcgaccaact tgaatttttc tttggcaagt cttgcttttc ctagttcggg ttttagagct 300
cggacttctt catcctcttc tggagcttcg aagttctctt cgtcgataat ctttaacttg 360
gagagccaat ctaacctca tgtac 385

<210> 20351

<211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20351

ctcagctatg ctgcnacatt ataatagacc ccctcagaag catttccaac aacagcagaa 60
 taattatgat ctttcaagca acagatacaa tccaggttgg aggaatcatc caaatttgag 120
 atggacaagt cctccacaac aacaacagcc tgtccctacc ttccagaatg ttgttggtcc 180
 aagcaagcca tatgttcctc ctccaatgca ataacagtag cagaagtcac aacaaagaca 240
 acaagcaact gaggtcctc ctcaaccttc cttagaagag ttagtgaggc aaataaccat 300
 ccaaaatatg caatttcaat aagagacaag agcctccatt cagagtctga caaattagat 360
 ggagcaaatg gctactcagt taaaccaagc tcagttccaa aattctgaca aattgccttc 420
 acagactgtg caaaatccga aaaatg 446

<210> 20352
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 20352

agctttatgc cattcggaat aggggctcgt gtctgtgttg gacaacactt agccatgaca 60
 gaactgaagg tgattttgtc tctcattctg ttgaagtttc acttctctct ctcattaagt 120
 tactgccatt cacctgcctt ccgtttggtt atagaacctg gccagggagt tgttcttaag 180
 atgacaagaa ttttaagcaac aatgtaacag atgaatgatg aaaacatgca ggtaatggga 240
 tggttgatat agtcataaga catcatttct ctagctgatg aatgctaata agtctttttt 300
 tttatccaaa ttagataata atattttttt tttatgacag gaagatattc tcatacttcg 360
 aagttatgag acgaaga 377

<210> 20353
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20353

tggttttctc caccacgtng aagaccgtga catctctctt tttcttttcc atcgccacct 60
 tacctaggta cgttttgtca aagctttgtt gttctattga atacttaggt cagcttgggg 120
 aactcatggt taaccaagg accttttttg gtttctactg caaggattgg ggaacttgta 180
 gtgacctgag gtacgtttgt tgtcgcggtc actggtgctg aaaggctctc attttgattg 240
 aggcaagtcg tgctcacttt gtagttcttt gaatgcttaa tgtctgttgt aaaactaggg 300
 tagcatagtg tattgtagtg tagtgttctt cattctgttt gaggtagcgt agttaacttg 360
 tatgttcatt ctgtttcatg tacattgtta caaactgcat tctacggaat aatagttaac 420
 tcgtatgaac t 431

<210> 20354
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20354

agcttattag tgggaaatth tgtaagactt aattcacccc cccccctct taagttattg 60
 aggccacttg tccaacaagg acactatctt aatgagctta agcattatct cgatggtagg 120
 tatatttctc cttgtgaaag agaccacttg ttgttgaaag attgtacttt cattttctgg 180
 ttgattcaa taatatttga agatgatgac aacattgatg ctttgctctc caagccaatt 240
 gttaaggagt ccatgtttac ttggctacaa gctaatagca ttttcaatga aggaaaacat 300
 ctaacatatg tgcaattcat aacaaagttt acatatgtag ccaaggatag atgttggaag 360
 ccacgcanag gaggttatac aattgacagg ct 392

<210> 20355
 <211> 441
 <212> DNA
 <213> Glycine max
 <400> 20355

tgttacagaa cttaggaaaa atcaagaaca agcttggtcg cacatcgttc gcgtgttoga 60
 tatccactcg acaaggtttg aagtagagga gaccttcaat cctataacgc aacgtggcgg 120
 acaaaaatgg gcagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgcgct 180
 tcactatcca tgttcacaca ttattgcagc ttgtggttac gtgagcatga actactacca 240

atatatagat gttgattaca ccaatgagca catcttataa gcatactccg cacagtgggtg 300
gcctcttggg aatgaaacgg caattactgc ttctgatgag gcatggacac taatccctga 360
cccaactaca attcgtgcga aaggtcggtc aaaatcaaca aggataagga atgatatgga 420
ttgagtcaaa ccatctgacc a 441

<210> 20356
<211> 390
<212> DNA
<213> Glycine max

<400> 20356

agctttatat gatatcaaac gaaatttttt gcaacctaac atgtttattg ttaacattat 60
aaacatcttt gttaattaaa tgacaattat ttaagcagta atatataatt gtttattaca 120
ttttgtttgc acccaagcca ttgcacaatg ctttctattt tcaatgtgta gttgggtgta 180
taggataagt gtttttagtg cttccagact agccgttttag tagcttggtg ccaacctaag 240
aatttttgta gccttgtaga caaccttatt cacaagaaca caattcaggt gatagagtta 300
gatggaaaat tataataatt ttttaactat aaatataaat aaatatttgt gcccacatc 360
tagattcaat tattgtgaat ggagtaagct 390

<210> 20357
<211> 451
<212> DNA
<213> Glycine max

<400> 20357

cgctttcttt ctaatcaatc tgtctattga ctaacatttc taattgcaat ctacaaaact 60
tggtctttct ttgtctatca tacatatttg ctcaaactca tgataaaaca aaatcttcat 120
ttcaaccatg tattcaatcc ataatcacca tttcaaactc ttatcaaact gcattttcaa 180
agaatcaagt taaactgttc tttatgcac aggactttca aaatgtttcc aaaacaaaaa 240
gtatgctata aaccatattc acatgccaca aaccataata gttcatacgt actaaaacca 300
tacaaccact atactacaca aacataataa ttaaaatgta ctaagaatga tataattata 360
ataataatta ggacatgtaa tcaaactctg tcattcatct cgatcctgct cctcatcatc 420
gaaatgtaac actggcggtg atgcaatcct a 451

<210> 20358
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20358

agcttcttgc cattttaatg tctgcagttc acaataaaga caagtagatg aagacataac 60
 aagtaaattc ttgaataata ctaatacact acaatctatt gcagttttga ttttaccttt 120
 gattcatcat tagcttcttt ggcagcagaa gcaaattctt gaatcgaagt atttagtgga 180
 tgtagagtaa tctgcttgtc taacaagtag ctgagtatgt tattgtagac ctgtccaaag 240
 tacgggaaga ttatagactc agtaatgata taggaacact tccaagttcc aacgaagcca 300
 taacagtgc acattaaaat tgaataattg ataaatattt attcaattca cccacattt 360
 tactctcttt gcctctgcc aatatttagc ct 392

<210> 20359
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 20359

gaccttcaca ctgcgcttac atgtccaggc ctggactgtc tgggtccaaa tggttagaca 60
 atgggtgatt tttatgccat gcaatacgat ttgacagact ccaaaatctg cattgaagaa 120
 gagctaaacc ctatcagcac atatgcacca gagatatact gctatatatc tatacgcaat 180
 gataatgtta ttccacattt tggagtaa ataaagtga gactatacat acacgataag 240
 aatgatcaag aaggcagaat gatttgcttc cacatgctat tggggatgct aaacgaagag 300
 acataccata aaaaggacaa tgaaatgtac aatgcgtgat tgtatgttgc gtatactcca 360
 taatacgagt gatcgacagg cccgtagcaa taatcattat cccgcacttt ttcgtgagtg 420
 tccaacga 428

<210> 20360
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 20360

agcttttgtc cacttttagaa ccacttgaat ccgttcaaag gttcaacgcc ttaaacggtc 60
 tttttacttt taaacgatta aaatgaacct ttagaagtct aacatcaaac ttatgtgtaa 120
 ttttttttca tcaaagaact atgtaggtct gagttttctca tcgcaattga ggatacatag 180
 gagcaagagc cccgctattg tcgaccccaa aaagataaaa aacataaaaa atggaaaata 240
 aaagaaactt ggtgtcatga ttttgcacac ttgattaaac gctgttggtcc cttgtgacgg 300
 acgcgtgggg tgctaatacc ttccccatgt ataaaaaact cttgaacctt tattttcttat 360
 aatttgtaga cccatttttg gatttttctaa catttttcg 398

<210> 20361
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20361

tgtccttggg ttagacatga ttggtacatg atttgggact tgtagttatt aatttgggca 60
 aaattggatg agggaaagag tggttttcga aatctgcact gtatgcagaa ttttgcgtgtt 120
 gaaatgtgca gcaaaatttt gtataagtgc agaaaaaagc ttgtgtatgg ctggttgtaa 180
 aaaggggtatt acatatgggg ttctggaaat tatctaagag atcccagcgg tcaaaatgta 240
 gacttatgta ctanagactt ccagtaagat tttcgagtcg atccaacggg taacgaattc 300
 taacgatgga catgttactg gggatatttg atgtgaaaag ctgtgattgt gggttgtgtt 360
 ctgggcagag tattctgcct ttgccctggt ttgcttggtt ttgttagacc atgatgattg 420
 gatgtggaa 429

<210> 20362
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 20362

tagcttgtat cagctgttac atgataccaa atggaaattg caagcactac aaaaaaagc 60
 agaatgactt gccatgcaac ttgggacatt agcacaatga tagtcattaa ctagataagt 120
 gctaacacta atccagctaa ttcggatggg atgtctgtgt ctacagcact ttgatccgta 180

tatggctata atcatcaaca caagaatggt tgaaatctta ttacagctga taataatcaa 240
aagatagcac taatctatca cttaaagatc taacagtga actgacccta ctcgtaattc 300
ggcttgaagg tgtggtgtca aaaaatgaaa catgtgccct taatacaatc cttectagta 360
tgaagagggt gccca 374

<210> 20363
<211> 415
<212> DNA
<213> Glycine max

<400> 20363

cgagttcaac tgtccaactc tcttcataa tattctcggt ttgaaataat gggcaaaata 60
ttcactttgt ttcttaaaag tgccaaccga ggtatggtca tgggttggtcc ttttggtcc 120
tcatgacatc ctattagagt atacttactc cgtctagtat tgttactttg tgtattctgt 180
tatttggtgt ttgtaagctg tcagtgaagt gacatggagt tacagctaag ctgttactga 240
gctgctcttt acttacagct ctaactatgt cagtaacaaa ttgggatagt taacacgccca 300
gctctctata tatagagggtg acactatgct cttgaacttg tctttctctt tcttgaccag 360
agagaaatca gagtctatca cactctatta ccgtatcaca cagcttggtt gcgat 415

<210> 20364
<211> 365
<212> DNA
<213> Glycine max

<400> 20364

agctttatac ctatgcttct ccttcttctc cttgaaaagg gccaggagag acacaccaga 60
aaccttcacg accttgaacc tgactccagg aatatcacc acggcatgac cttttcgtcc 120
aatccagct atcatgactt cattctacaa ccatcaacca cataacatta ggataagcat 180
atcagcacca acataacagc aaaataaagt aaatatgatt gatgaatcac ttacattctc 240
ttcaatataa tttaagcaac cgtcatttgg cacaaatgca gcaatcttct tccatttttg 300
atgagttgac cctggcacat tttcaatggc agagttgggc tgcttacctc ataccactgg 360
catag 365

<210> 20365

<211> 437
 <212> DNA
 <213> Glycine max

<400> 20365

ggcatgcatg gattacttat tacttattag gtgaatgtat ttttatccat ccctttgatc 60
 cggctcagtt agaagtagat ttaacatgt ttgagttttg aaattagatt tgtattttta 120
 agcaggttca aattatattt taggtcatta ttttgggtac atttttttaa acaaatattt 180
 caggtcattt taattcactt tagtatttaa ttgactgta aaacaatttt tcacactggt 240
 atccaataac cactttttta attatttttag ttaataaatt tataatacat gataataagt 300
 cataattaga tgattgttta aaatttttct atattattaa tgtataacat ttttttcatt 360
 tttatatgtt tcttttaata taagttttat caacgatagc gtatcttata ttaatcttga 420
 tatacaatag caacaag 437

<210> 20366
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 20366

ttgcttgtaa ctaaataggt tttctgccaa tgtacacata ccttggtcct tgtatgacc 60
 ttaacaaagt aatatggatt aaatctccgt aataatcttt cggatcaaata tacctaagat 120
 tgtaatcatc ctaaaacca taggtccaaa tgccaataag atttgtatat ataggattga 180
 gattctcaat ttaaaggctt attgttcatt catttattac ttatatttat ggctttgagc 240
 cgaaacttta cttaagtatc agtatacctt ttgtaggtag ctcaccttc ggagcgagt 300
 tttcaatgag tactactacg gaatgatgca ctgaagttaa cgacatgtct aagagcaaag 360
 catcaagtta tcttttaggca ttaacatt 388

<210> 20367
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 20367

ctttcaaccg ttctttgtcg ttctgtcttc gttcttcgtc gttcttcggt cttcaaccgg 60

taagttcccg aaatcgaact ttcaaatta acttttattt tcatttcatt tactttccgt 120
 accccctttc gacgtgcttt agtcatttac tttagtcatt ttctgccta atcaaaaaat 180
 aaaataaatt tccaccgatc atttgatttg taatatccgt taatttctgt taaaatgaaa 240
 tctgaccgtt cggtcatgcc gtaaccacgt tggaaccaa aaagaggtaa actaataata 300
 taataataaa aaaatatctt ttagtaaaat aaagcaaaaa aaaacaatcg gacgtttctc 360
 tttgagattt ctctttctta atcgaattga ctaataacta aagtgaaact aaggctaaca 420
 tcaactcgca aagt 434

<210> 20368
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20368

agtganatga gactgagact gagacctga gnnccannac cangggctct gtgaacctct 60
 agagccgagc ctgacagcct gttgctttt tgccatttcg ccagacaag caggggtggc 120
 tccttcatta tccacagtcc aatcgaggaa tcttcagtgc ggcccaaag ggccatgttg 180
 ccatatgcac ccctattgat tactaagtgc accatatctg ccaccatttt gctgcgatac 240
 tttattcgca aagacactgg accttaccba ttattcaact atacctgcta tctttccaga 300
 atgttacagt accgtgagga tgacataatc atatccctac ataatgtacg gaatgttaca 360
 ttaccttctt aatagtgcc ccaagtcttg cttagatcat ccgcgagata ctgaacccaa 420
 atgaatgtgc actacttatg tcagagatat cagcctgtcc acaatgacc 469

<210> 20369
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 20369

gcctcataga ggtccaggaa tgacaaggcg gttgtagtta tctgttctct cccggagcac 60
 gacagtcacc gcttgaggat cgtgtacacc acagcgcttc gaagccatca agggatggc 120
 gattctccgg gagcgacgca gtccacgctt cagggacaga cgacgtatac tagacttttc 180
 catgagcgag atacgggccc caagcgggtg gcaccactgg ttactcctat ggccaagtat 240

gatccaaaac tagtccttga attttatgcc aatgcttggc ctacatagga gggcgtgctg 300
gacatgagat actgggttat gggctatcgg attccattcg atgccgacgc tatcaaccag 360
ttcctgggat atccgaaggt gatggaag 388

<210> 20370
<211> 295
<212> DNA
<213> Glycine max

<400> 20370

ggggaaatga tgaggattct tttgataggc caaggtacaa aaaagtctaa ggttgtgttt 60
caatggggtc ttttatcgtg ggaacccaat gttgatatct ggagcaaac aaatttgggt 120
gtcaaggtgt ctgtcttcgt ccaaactcct atactactcc attatgaacg catgacaatg 180
atgatttgac aaccacatgc aaaattagtc atggctacag ccaggtgggc actcaagcat 240
cccatatatg gcattgtgat actacggctg tgaatctaca catacagacc ctttg 295

<210> 20371
<211> 431
<212> DNA
<213> Glycine max

<400> 20371

ctttctgtgt ggagtgatga actctgtcgc gcattatggc ttgatcattg gctgacatat 60
tctcaattag ctcaattgcc tctagagggg tcttcagctt tatttttccc cttgctgaag 120
catcttgatg gaagcttgct tctggggcct ctatggaggc tggatctttg agcttcaatg 180
aggtccttta atggtgattt tccaccatgg agatgcagtg gaagaaaaat gacaagaggt 240
gagaggaggc gccatccact aggggaataag ccatggaaga aggagcttca ccaccaagat 300
gagccttgga taagaagctt ggagaggatg tctcaatgga cgaaaagaac gaatgagaga 360
aagagaaagg gggggagcac gacattgaag gaagacaaag ggagagaagt cgaactttga 420
gttgtgtctc a 431

<210> 20372
<211> 375
<212> DNA
<213> Glycine max

<400> 20372

ttgcgtgtta gcttgttctt catgccccag tgatgccaca ttgcgatttt atgcatggca 60
tggatgcctg ggtactataa ctttcatgac ttatgaaggt gcgacaccta tctgacttag 120
agagagatgc acatgcgctg cttatttctt acactcattt tcttattgcy aggctaatat 180
ccaatcacca tccattggac agattgatgc atactcttta actggagttg atgatggctt 240
gtgttatgct tttatgatca actaacctga tttgcttctt catatacact agtgtgctct 300
tggagacgat gccgtatata gactgatcat catgctcctt tatgctgatt accttgaaaa 360
gttcatcatt tctca 375

<210> 20373

<211> 413

<212> DNA

<213> Glycine max

<400> 20373

ctggaaaccg gagtggatcat gacatcgact atggaactta ttctcagtat ggtgggtataa 60
ccatggggcaa atcaactctg tatatcgctc tcattagtct tcatatcgat aggagaaatt 120
ccacaagggt atcataacga ttgaatcggt catttaaata ataaattaac acagcagaca 180
tgataaaact tacctgtgtg taagtaataa aatatagtga ttaaaaactat atcttacact 240
gtcactataa tgatatcaaa tatcaagaga cttaaacatt gcatatttta tgggaacaaa 300
aataatggta ttgtcctact ctgatttgaa attgacttgg tgaacttcta aaaccatgta 360
tgagttggag gtactataat acatgaaatc cacttagacg ctaccaacca ttt 413

<210> 20374

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20374

cgtgggcttg agcttgactg acgccatcga aatcagggca atggatcttg gacccggaga 60
tgctctcagg cgacctgttt gctgtcatcc tttgagggcg acgtagtatt aagatatgta 120
agtgatacca tggctcttac atcgtgtaga gtatcctgaa ggaaccgttt tcatggatgt 180

aatctctatc ctgcacaggg gagtgtctaa ttataccatc catatgtatc gtagacttcg 240
 ataagaagca cctgcgtgta ctactataga gagaacttat gcacaatgct tactattcat 300
 ctaaagtatg ggaggcgta cactagatgt aactttgatt aatgacagtc ttgtagactc 360
 ttgtactagc tcaacacctt tgacttttcg tacatgataa cagctccca cctgctctat 420
 tcttcacac taactctact acattgagcc tccttgactg agtcn 465

<210> 20375
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20375

ntgaccaaat cccagcaaca gttgtttcct tatagacttg tctcaacacc ttgtcttcga 60
 aactgagaat aattgcactg tgtgccttct gcagtagtgc tttcttatcc ccatcaccca 120
 tcatcttttc gagtttggt tttccatcaa gtgcttctac caagccatct tcaatcgcca 180
 tagtccaaaa ttattttgcc ctgtgaactt ttcaacctca cacttggccg agcccatttc 240
 ttgaatcgaa ctcaaaatcg ctccatgctc accgcaccaa tttgttggtc caagatcaga 300
 ttttaattca caaaagaatg agtttcttgt atgaacaaga ataagctaaa tgcaggaaaa 360
 aagatgaaca gaaaaactac actgtgctca tagcaatcac ttttcatatc tctgcaaaaa 420
 a 421

<210> 20376
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20376

agcttattcc gaggacagtt tattatcatg cacagcctgc aagagttggc tcataacagg 60
 ccaatcatal ctatagagca ttttcttgag caagtagcct ggctgaagc tcaacttcca 120
 ttggtgagac ccaacgaggg tgcccctcct gagccacac ctacacaggt tgatccagag 180
 ccagcagacc cataatctcc agtgatgaat ccaccttctt ctctgagct tgaagtgggt 240
 ccccatctc cacctctgat tatcatctcc gatttcccat ctagagaaac tgctgctccc 300
 cctgattcac cagctggaga agtagctgat cccctgatt tcctagttgg aggagctgct 360

gatctttctg attcctcatc caaagaagtt

390

<210> 20377

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20377

tctggtggga catcttgatg caatcctccc taggaaggga ccaatcacta gaaccatgag 60

caagaggctc caagaagatt gggctagagc tgctgaagaa ggcctaggg ttctcatgaa 120

ccttagggta gatttctgag cccatgggcc aagggtgggt ccaattatct ttgtacatat 180

tagactagga tgtcattata tttggtcctt gtatataggg ctccatattg taggtagggt 240

accctagaaa tataggattt ttcagccctt gtattttttg ggcacctaga ctagttttta 300

tattaggggt agtnttgtaa tttcacatgc actaagtga tatttgatgt gtgtgggttg 360

aaataaattt aattgaattg gtagaagccc aatccaatta aatnttagag ggggaggtga 420

gcatttgctt actacacccc attg 444

<210> 20378

<211> 421

<212> DNA

<213> Glycine max

<400> 20378

ctcggacccg ggatccttaa gcacctgcag ctgcagcttt tggttctcac ccaccatctt 60

ttcatagtag agtaccgata atgtgtctac catcacgatt atcgtctccc tttccattat 120

tgggggtacc acctgtgccg ccagatccct ccaccttttg ggcgtgttct ttgaatgac 180

cgccccctt tttgcacatg ttctgtagat gcatoctata cggaaccata tcaaaattgt 240

actgatactg cctaacaaag gcaaccatta tgtccttcca agaattggact cggaagggt 300

ccaagttagt gtaccaggta acagctgccc cagtaagact ttcttggaag gaatgtatca 360

gcaattcttc atcttttgcg tgttccccca tcttctgacg atacatcttt agatggttct 420

t 421

<210> 20379

<211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20379

tataacatga ttntgtgtn cacatcccct ggagcatatt ttgacttatc attcaacaaa 60
 gacaagggac caccaactta cagaattcaa ggtcaatctt gccatctaata agggagttta 120
 ttaccaatgc caggaaaacc tcctaaatctt tctcacttgt atatctatgg tacagagaat 180
 aaaatccaaa atagaattgg aggcttaagg taaactataa ttcttataac agatactaaa 240
 gtcataataa taaattgatt gttcttaggt tatattaact tacaagttta ataatgcaga 300
 tttgggaacc aacttgatcc aaagattggt gccaaagtaa aagatatggt ttaccatcat 360
 aatgtctttg ctaaactctt cggaatggca aaggaaatat ttgagaagat aaaatcacat 420
 gatctgaaat tgcaatagat atctc 445

<210> 20380
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 20380

agctttttct tcttatctca tggaggtgag cttagctatt agagaggtat gtgtagctaa 60
 gctctagctt ctttaggaat cttctgaagg aagcttctca aggaggtaag cttagttatg 120
 agaggggtgt gtttagctaa gctctagctt ctcaaggaag ttttctcaaa gaagcttctc 180
 aaggaagttt tctcacgaaa gcttctccag gaagctacct agtctataaa tagaagcatg 240
 tgtaacactt gttgtaactt tgatgaatga gagtcttgag agacacaact caaagttcaa 300
 ctctctccc ttttcttcc ttcaatttcg tgcctcccc tctctctatc tccccctctt 360
 tcttttctc cattgaagca tctctccaa ggc 393

<210> 20381
 <211> 444
 <212> DNA
 <213> Glycine max
 <400> 20381

gcttcttcca agggcatggt tatttccagt ttgttgaaaa tatctaagat tctcgctta 60

tgacgcttct tctccttctt ggaaggtacc acgggatatg gtacttccga accttcattc 120
 acagcttttt ctcttttctt ctctctagct tattcacttc tactcctctc ttcattctta 180
 tttttttcat atttttcatt ttcttttctt ttttcttggt catttaattc ttttttcttc 240
 actattattt gtttttcttt ttcttgattg ctttcacctc tcacatcacc tttcttttca 300
 tcagtacatt tcttttcagc agctttcttc ttggatacaa cactatactc atcctaagcc 360
 tccataaacc tcttattcct tgtcatcaca gctttgcatt cctccttggg attcttttct 420
 atattcacca caaaactatt ggat 444

<210> 20382
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 20382
 agctttattg ttttatatct ctttgatgca acatatataa tacttttctt ttttttatga 60
 atgttaaaca attattattt tttatgctgc tagtgatttt ggagcacaaa ttgtgcccc 120
 aaaaagaatt ttgaagatgc ttccaaaact ctttgatcat caagatcaaa atgttcgtgc 180
 atcctctaaa gggttgactc ttgaactttg ccgttggatt ggtaaagata gtgtaaaatc 240
 aattgtgttt gagacaatga gagacacaat ggtaagctaa actagttgtc tatttttggt 300
 gttgatttga tttgttatgt tctcctccat atccaaatct tagagtacct ttcttcccat 360
 ttctgtatag aaaagagcta aa 382

<210> 20383
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20383

ggctcagaga aggagtccac ggaggaaatg cttaccacct tatatgtctg gaaagcggnt 60
 tctaatact cctctgogga ctctacataa ggcatagagg atggacaact caccaagatg 120
 tcttctctgc ctgacacgat gaccagatgc ccttccacta cgaatttcaa cttttgggtg 180
 agtgtagagg gaacaactcc cactgagtgg atccacggac gtcccaacag acagttgtag 240

<210> 20386
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 20386

tttgctttta tcttggcaca acaccatggt gaacaaatga tcattcatca ctaatacaaa 60
 ataaaaagaa aaaataatc taacggcatg cttagagtta gaagtacgaa ttttaccxaa 120
 ttgttttttt cacacaagtt gatgatttca ccaaagcaac ggaaaataac caaaaacata 180
 aatggatttg tttcgaatgc acatataatt tacactagca ttcaaaacaa ctagttcaaa 240
 agtcattttg acagagaaaa gaaaataaaa ttacactaac actgcatcaa aattaaacca 300
 taaataaagg cttaactact gtgtagtccc tggatctagg gaccctatct tttttaatcc 360
 ctaaa 365

<210> 20387
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20387

tcacaaaagt ttatatggct tgaaacaagc accgttgctg tgatacaaaa tgnncaatga 60
 gtttatgagc aactcaggat tcaaaagatg tgacatggac cattgctgct atgttaagaa 120
 atatacta atgttatgtta tcattgtcgt gtatgttgat gacatgttga ttgcaggatc 180
 tagtatgaca gatattaaca agttgaagta gcagtgggca gaaaactttg aaatgaagga 240
 tcttgggtcca gctaaacaaa tccttgggtat gagaattctt agaaacagat cagaatgaat 300
 cttaaagcta tctcaagaga aatatataca canattgctt gacagggttct accttggaga 360
 ttctaagacc aggaataccc ctttgggatc tcatttgaag ttttcaaaga agcaatcttt 420
 gcagacagat gaagaaa 437

<210> 20388
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 20388

ttagcttttt tattagacct cgatcgggtcg tccttactgg ccgacgccga ctgtcatttt 60
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 cgaataaatc ggaacatgcc agtttcgggc aaaacgaaac atcggttgag ctacacacgaa 180
 aaaacctagc cgacctacat tgtaagtttt ttatgcaaca ccgaaacaag aaaacttccc 240
 ctgccgtaag aaaaaacatt atcggccagc gagcgttttt tttttaaaaa aaaattgccc 300
 aatgtcggct gaaaaatata agtcggggcc atttcacgac cgatgtcggc tattgagttt 360
 tctattcaat cctgaatga aatttgaat 389

<210> 20389
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 20389

ttcactcgga tgtccgatgc acgcgcatca tatatcgagt tgtctcgaaa ttgaacaacg 60
 gaagctctcg agaaattgaa atgatcataa cttttcactc agatgtccga ttcagacgca 120
 taatatatcg agacgctcga aattgaacta cggaagctct cgagaaattt aaatgattat 180
 gaattctcac tcggatgtcc aattgaggaa catcagatat cgagacgctc gaaattgaac 240
 aacggaacct ctcatgaaat tcagatggtc ataacttttc acacggagat ccgattcaag 300
 cacatcacat atggagacgt tcgatattga accacggaag atctcgagaa attcaaattg 360
 tcataacttt tcaactcggat gtccgattca cgcgcatgat atatcgagac gctcaaaatt 420
 gtacaacgga agctct 436

<210> 20390
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 20390

tcacctatgt acaatgtaga cactgataat atggttaaat aaatgattac gttttttaat 60
 ttattatttt tgcacgattt aatcttttat tattttcaat ctaattcgat cctctaatta 120
 aaaaaaaaaag atattctcat cctccatgtt gataatttgc ccataaagaa taattagaag 180
 acttcgaact aaaataataa atgtgagggg gaaaaataat gtaacctttg atttcgtgtg 240

actggggtaa aaaataaaga ctatataaac taccgctgc atcaattccc tccgctctga 300
 taataaagcc actcgccgct ctctgtaccc tcctctctct atcttagcgt atgtcttatt 360
 acaacttatc 370

<210> 20391
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 20391

ttaatgttgt gactaacaag gtgcataaca gagaatggga tttggtaaag tttacacaca 60
 acatatatgt atcttctatt ttaatttcag aaataacctt tgattgtgga gcagttatac 120
 ttggctaatac aagagaaatt ccacaaagtg gctgacaaaa attactggaa agctattggg 180
 gagatcattc ctcgagaggt tcccaacatt gagaagaaaa gaagcaaagt ggatcacgag 240
 aataagccat caatcacagt cgtccaaggc ccatagcctg gctaaccacac agatctttct 300
 aggatgaggc agatattggt gaagctgaaa catacaccac cagctcacat gattccccct 360
 cctactgcac ctgctaaaga cgccatagat gggaacgatg gaaaagacgg aatagaaaca 420
 gcactctaaag ccaatgga 438

<210> 20392
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 20392

tagcttgcag caaattcaaa cagcaataac tattttctcg gattttggat tgagtctcgt 60
 catatatcga gacgctcgaa attaaaaatg gtagaccga tcaaattcaa acgacaatga 120
 ctatttacac tgatgtctga ttgagtccta tcatatattg agatgcgcaa aattaaaaat 180
 ggaagctccc tgcattattca tacgacaata actttttata cttggatctg cgattgagta 240
 ccttaatatata tcgagaggct cgaaatttgt aatcgaaagc tccgatcaaa ttcaaacaac 300
 gataagtatt gactcggatg tgcgattg 328

<210> 20393
 <211> 431

<212> DNA
 <213> Glycine max
 <400> 20393

tatgaagaag tgggtgttgat acattgtgtg atcaaacgga tatggatttg actttcacia 60
 gcaccactac tagaaaatgt agatttaaca ttgtcaagtt aacattgggt tttgataaaa 120
 ccgatgttaa cataaacact atgacataat tgtaataat gtgtatactt taacatcggt 180
 tttgttttgg aaaaccaatg ttaacgtatg ataagttaac atcagtttct tccagaaaac 240
 caatgttaac gttaacatca tctgggtaac atcacttttc tttttattgg aaaccaatgt 300
 tgaacctaca tttagaaata ttagaacgca agccttattt tccttgtttt ctcttcttct 360
 ccgtctaagc tttgtctttg tgagtctatc cctctctaca accttatcgc cattgtgaca 420
 cctcgccact a 431

<210> 20394
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20394

agcttttagt tgcttggaca acaacttatt ttgggccaac aaggcatctt gagatgaaag 60
 ctctaataaa ctcttttttg taggaatatg aactctatca tgcaaaattg catggtcact 120
 ggcaaccata ttttcaatta agtccatggc ttcttcaagt gtcttcacgg ccataaccca 180
 ttaatgaaga tgttcaacta tataggctct gaaaaagcta cagtgggagt tttctgtagc 240
 aagctataga atctttctta tgctcactc aaagattcat cgagaaactg atggaatgaa 300
 gaaactacaa cttttccctc tacaatttta gactctggga gatatttntc tagacacttc 360
 tcaacaactt catact 376

<210> 20395
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20395

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ttgggctcgt tgaggtagta ttcaatttca taaaatgttg tatctagagc attttgggtg 120
 ggtcacacgt ttgttgactc gctgggctaa atgttctgtc tgggatgtga ttttggctgg 180
 ctaggcttta atctagttgt ttatatgatg attatttaaa ttttccttaa actcttcctt 240
 tctttttttt tatgattcaa atgactttaa aatatttttg caaatatatt atacttattt 300
 gtatgatgat tatgtcattc ttgacctgtt tatattatgt taatgtgatt gcattgttga 360
 agtgaatgata taggtatatg ttntacttat tgtagtgaga aataccctta acgttctatt 420
 gatg 424

<210> 20396
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20396
 agcttgcaaa ttcgtgttcc agccagactt atttcatgtt ccatatcaac aaggcaggat 60
 gactcttaaa agttaaaca gaactataca cacgcattgg cctagtttca aatcaaactt 120
 ctctggcaca atagaaaaaa gttaagatgc ataaattaat ttttaattac aagtttgatt 180
 tattttaact tctaattttc tttttttttt tctggtaagt gtttattgag aactttatag 240
 taacttgact gcagtcatag atatacaaag agaccctatc catataatac tcatttcaat 300
 agcattcaaa ttttgacata aggaaattca aaagggatg aaaactcact aagtgttaaa 360
 gaagaaaatg cttcctccat ccttagtagc a 391

<210> 20397
 <211> 275
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20397

ctgtaactca gtgttaagta ttgtttcttt caatgtatga tttgtcacac acatgggttg 60
 canacgccac aaccancatc taaactaaa taggttgatt caacattgtt aacttaacat 120
 tgcattctga taaccacca gtaaacatta acactatgac gtaaatggta caaatgtgca 180
 tactttaaca tcttctttgt tttggacaac caatgctaac gcatgataag ttaacatcag 240

tttttacaga aacccaatgt tagcgccaac atcat

275

<210> 20398
<211> 389
<212> DNA
<213> Glycine max

<400> 20398

agcttatgct tttctttata ttgtcacaca gatttcatat tcttaatggc tgctgttttt 60
tcagacactt cctatTTTTtC ttgatggcct tgttactgca tggggcgcta tctaatttc 120
tgtgacatta attcttttgt ttggtgaggt gagaaagttc tgtccttata tgattttaag 180
tataatacat tcatgtcaca gattaagtgc ttgtgttgat tgtttagagg ttggaacctg 240
gaacaaaaat ctggtggcac agcacccgtt ttgtttggtt cacgtttttt ccatttgtga 300
aagacatttt ttgttaatta gaatcaattc cagttgaagt gggaaccact agcttctcat 360
tcctctaatag ttatgtttgg caataaaaa 389

<210> 20399
<211> 444
<212> DNA
<213> Glycine max

<400> 20399

tccccatctt cccagcacca accaccaaca ctccagaatc tgcaaatgag gaatccggtg 60
gcttcatcag tgcaagctcc acagcagccg agcttacaga aactgatcca gatgaaatgt 120
tagtctcggt tctaaccgc ttcccaaccg atatcgctg cttgaacaaa ccactgattt 180
tcttatcaaa accaggcact cctgtccag ctttcacaac ctgcttcacc tgagcaagaa 240
tttgaccttc cccaagaaca agtgagtcaa gccctgacgc cacttcaaata agatgctgctg 300
cggcgtagcg gttatacagc aaaacttggg gctcccggaag ctcaggtatt gaaatccact 360
cacctaaaca aaaaacacaa ccatgagttt tcctttccaa acaaaaacaa gaacttagca 420
tgggtaaatac acctatttgc tcca 444

<210> 20400
<211> 389
<212> DNA
<213> Glycine max

<400> 20400

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ccaatatatg acttaatgtg gttggattct atacataaca gaagatctca ttcgagttga 120
ccctgctcat agctgagatc catgtctcat caagattgag ctttctgcga tagatgatcc 180
cactctttac tgcataataa gaaccttcat ctctttgaga cacacttcaa aacagaatga 240
tattctctag gaactcttgc taggcacatt agataaagat catctggaag gccacagata 300
actaggaat tagtggtctt tatctcattg acactatctg atgatacttt tgcattgatc 360
aaatgctcca ttgtataatt cagatgacc 389

<210> 20401

<211> 416

<212> DNA

<213> Glycine max

<400> 20401

tgtcaaatgg aaggatagga taccctatgc tttctggaat ttcaacccaa cagtgtctat 60
tattaggaga gaactctgca agtgcaacac cacagaaaaa catgattgga atgcaagaat 120
atatgacata gtaaataat aatctaaaaa tttacttttg ttataggtta atgcattaat 180
tatctcaaga ttaaattaac acattttttc tctctctctt ttcaacaatg gttgagagag 240
agagcaagta attttgagaa ctcaaaactt gaaaatgaat gtacctttag gtaaagtgtt 300
gaagcatatt atatgattgt gattttttta aataattatt atagaagggg ttagtttact 360
tttttgaatc tgtcacatat aaactttttt agattgtact tactaaattt tgaaac 416

<210> 20402

<211> 392

<212> DNA

<213> Glycine max

<400> 20402

agcttgacag gttcatgtgc aggtgcaggt gctgctgcta gtggaggcac ttcaatttgc 60
ttgccagacc tcatggtgat ggcaactcaca tttttcgaat ttttcacagt ctgtgaaggc 120
aatttgcag aatttttagga ctgagcttgg ttcaactgag tagccatctg cccatttga 180
tttatcagac tctgaatgga ggctcttgtc tcttgctaaa attgcatatt ctggatgggt 240

atttgctca ctagctcttc taaggaaggt tgcgaagggg ccttagttgc ttgttgctt 300
 tgttggtgtt gttgtgttg ctgcattgga ggaggaacat atggcttgct tggaccaaca 360
 ccattctgga aagcatggca tgctgtgtt gt 392

<210> 20403
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20403

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 ggcacttctc tctctttcga atttgcttgg aaaaattgtt tccgtgaaga aaatccaagc 120
 cgaggtgctt ccgaaacgtt tccgtaacgt tccgtgagg aatttcgtga aggtttcgac 180
 cgttcttcga cgttcttcat tcgttcttca tcgttcttcg atcttcaacg ggtaagtacc 240
 tcgaaccaag cttttcgatt cattctatgt acctgtggtg gtctacattg tgtttcgtgt 300
 atttttattc tcgtttcatt tactttctat accccctttt gacgtgctta agccatttta 360
 ttttaagtcatt tctcgttga aactaaaaat aaaataaatt tccaccgatc gtttgaattg 420
 tattatccgt taac 434

<210> 20404
 <211> 394
 <212> DNA
 <213> Glycine max
 <400> 20404

agcttcttct tatttagctt caaccatgta ttttggacat agtcaacaaa tattttataa 60
 catgtccacc aatttgtaaa tcttttcaat aattcattat acgattcctt atccagagat 120
 tgcaacaaca gttccaagc atccatgaca tcttgccact cttcaacctt attcatatgg 180
 attttgcat ttgtgttgac attctttgta atatggaata gacataacaa gttggttgaa 240
 gaagtaaaaa tagtctcaa tgcattcatg aaagtaagat ccctaacatt gacaataacc 300
 tgagacaaca catcatcttt cacagacaat cctttcacct tacttaaagc ccattaacaaa 360
 attatccgtt gtctcataac ttaaataagc aaag 394

<210> 20405
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 20405

tgcttgtgga gcttctatgg aggctggatc tttgagcttc aatgggggtcc tttaatggtg 60
 attctccacc atggagatgc agcggaagac aaaggaaaag aggtgagagg aggcgccatc 120
 cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttgggaagg atgcttcaat ggaggaaaat aaagaggag agaaagagag agggggggagc 240
 acgaaattga aggaataaaa gagggagaga agtggaactt tgaattatgt ctcaacaagac 300
 tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360
 tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420
 agaagctaga gcttagctac aca 443

<210> 20406
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 20406

ttgcttttat aggtgaaatc aggtgcagcc atttccctta tagtctctc acgaggtgga 60
 ggttgtgcca tgttctcaga atgcgcaaaa tcagaatgct cagaattata atgctcaaga 120
 tcaggatggt caaaatcacc aataacagaa tgcacagatt caccagttat ggaatgctca 180
 gaatgatcaa aaaggtataa aatgatgcct aaataatcta tgtaatgtcc tatctatctc 240
 aggatcaaag ggttghtaagt cagatggatt gcctctagtc atacactaca ttcagcatgc 300
 acacaactag ttgccttgtc atgtaaataa aggtgtaggt ttgaactaca gctaccctca 360
 aatgatatct aaatgacttg aaatt 385

<210> 20407
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20407

ngaaggacat gcacaaagtg tgactatatg atgtggtaat atggtgtagc aagcaaagtc 60
 tcacctcccc ctctaaaatt taattggatt gagcttctcc caattcaatt aaatttattt 120
 tccaacacac acatcaaata ttaacttaat gcatatgaaa ttacaaaact acccctaatac 180
 taaaaactag tctaggtgcc ccaaaatata agggctgaaa aatcatacat ttgtagggtta 240
 ccctacctac gttatggagc cctaaataaa aggcccaaaa ataataaaac cttaatactaa 300
 tatgtactaa aataagtggg ctacacttta gcccatgggc ctaaaatcta tctaagggtt 360
 catgagaacc ctanggtctt ctcttgcatc tctagcccaa tctacttggg gtcttctatc 420
 caatgccctt gc 432

<210> 20408
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 20408

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 actgaaacat aaaaactaaa atttaaata ctgaacataa atcataaaat aacttaaata 120
 aactaaaatg ttcaaaatgc acaaatttaa atgtcctgct cctgtgattg ctcttgtgca 180
 tgctcattga gatccaacaa ttgagcagct ggtgaattct gagggatatg ttgctctagc 240
 tcagatgctg gtgaagatgg catggattca tcaggtatgg gtactgggga tggctttcga 300
 atttgggtctg tggaagtctc atccttctga gccatctgta cacctgaatc aaaataaaag 360
 ggctcaagag gagtgaagctc a 381

<210> 20409
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20409

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 tcatttcttt ctccgtcttt gagggaacca cttgggctgc cagatctctc cacctttggg 120
 tgtattcttt gaaagattca tgcccccttt ttgcacatgt tctatagttg catcctatcc 180
 ggagccatat cagaattgta ctaatactgc ctaacgaagg caaccattag gtcctttcaa 240

gaatggactc gggaagggtc caagttagtg taccaggtaa caactacgct agtaagactt 300
 ttttggaga aatgtatcag tagttcctca tcttttgcgt atgcccccat cttctgacaa 360
 tacatcttta gatggttctt gcggaagta gtcccccttt actctctggt aatcgattac 420
 catattgttg tcatcgat 438

<210> 20410
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 20410

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 ctagctatctt tgaattcttt agttcctgaa tgtacaacct tcaaattggt gcgcgttccc 120
 ctctatgaga atgaggagga tcttcatagg acttcatcca gctgatgttt gtcgtcagtt 180
 tcatcatcca ccaccctttt cttccgtgcc ttctcacggt cattgttgat aaaccatata 240
 ttatgccttc ttcccttcat gtcttggtat atcacaactt tagctgaatc tcccatcttc 300
 aacatagttg aatctcctgt cttattctcc aatgacacac tttgatggcc tgtatctctt 360
 ttcttcgtat gttctactgc ttcagc 386

<210> 20411
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 20411

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 gaagagaagt tcaagtccat agccatcaaa gtctgaaaag agtatgatga actaagggac 120
 gtcaatatgg ccaccgctga tgccttgga cagagaaacca agaaggccca aaaggaagaa 180
 cagacacaaa gcaaagtttt gaggggcttt atagggcagc aatagtgagc tcaagctccg 240
 aagaggtgaa aggaatcatc acgggtcaaa ggcatgatct tgaaggacga gctaaagggt 300
 tgccttaagt cgaaaagaaa tttgtcccaa cagttaagcg agactgaagg gaatatgtgg 360
 gccatcatcg ataagtgcaa agagaagcta aatctagcgg cgactcacga gcataggcta 420
 gaggatgagt acgccaag 438

<210> 20412
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 20412

cgctttcaaa acatacatct ggttcagcta ctgttgcaat tgcttgata tttgtcatac 60
 tacgtaacca tatggatgca cggacatttg gagcgggtga acccaataga ggcaactgcag 120
 cactgcttga ggacacaatg gatttgattg tacgcattga tttgcttatt tatatcaaac 180
 caacggcaca tgggacatgt ctcatgaaat taagtggctc aaaggctaag gaagcttcac 240
 aaaaaagggt ggagacctag aagatcaata tgattatgta atggggatgc tgaagaatat 300
 ggccttgtaa gatgctctac ttcattcgta tcttcttgtt actcaciaaac gtgtgtgcta 360
 catg 364

<210> 20413
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20413

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 ggacggagaa acatctcaaa cttacacctg tgatgactca gcactcttgg gcaggtgaac 120
 gatagtcttg tcatgcacgc agaaaatgag aagttangcc catcattact atgcaaaagc 180
 gtggatcggt ggtggttgaa ctctaacttg agcaagtcac cagcagggag atccgctttg 240
 ctattcaatg ccacactaca tgtgagagta tcatcataga gctagttatg agccgctgcg 300
 acaccctcta tatcttgc 318

<210> 20414
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20414

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[illegible]

```
<223>      unsure at all n locations
<400>      20415
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<400> 20416

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ctatggaggc tggatctttg agctacaatg agatccttta atggcgattt tccaccatgg 300
agatgcagcg gaagacaaat gacaagaggt aaaaggcggg gccatccact aaggaatata 360
ccatggaag 369

<210> 20417
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20417

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aacaattatg acctctccag caacagatac aacctggat ggaggaatca ccctatcctc 120
agatgggtcca gcccttagca acaacaacag cagcctgctc cttccttcca aaatgctgct 180
ggcccaagca gaccatacat tctccacta atccaacaac agcaacaacc ccagaaacag 240
ccaacagttg agggccctcc acaaccttcc cttgaagaac ttgtgaggca aatgactatg 300
cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagata 360
ggaccattgg ctacccaatt gaatcaacaa caatacctga attctgacaa gctgccttct 420
caagctgtcc aa 432

<210> 20418
<211> 380
<212> DNA
<213> Glycine max
<400> 20418

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atacacactt attaatgta tttatactta caactttttt ttttaacaca gagaaccgaa 180
acagtgtgta tatactatatt tctttgacca tttcaatcct taccagtgct ccccccaaa 240
tgtggaacaa atttaccttg ataataactc ctocaaattt gccttgaacc atcttctgtg 300
gatgatgctc tctacaacc tataataagg tagcagaaga tgcaattgaa tacgctcgag 360
gttcaatcaa tcaatcagtt 380

<210> 20419
 <211> 431
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20419

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 tgccattcct tggattatag ggttgaacca agctcatgct tttacaaaaa ggttcatcaa 120
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180
 acatcaatgc ttcgtctact tccaaacata tttaggatta ttgatgtcct tgttacttcc 240
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcctgcgt aaatatcgcg aataacttga ctgtacatca ttcgcatgca tccatgcttt 360
 tcattgggtg cattgctcat tgcattcttt ccttgaaaaa taaaatanaa taaaatacaa 420
 tgaacttata a 431

<210> 20420
 <211> 391
 <212> DNA
 <213> Glycine max

 <400> 20420

agcttgccac ccagctcgcc caggcgagct cagctcgccc aggcgagcag ggttgcttcc 60
 tccagaagca acagccttct ggaggaatct tctggagggc ccaagtgggc ttggttgcta 120
 tttgcatccc ctttttact aagtacaccc cctgccttt tttggtgatt cttttttcgt 180
 aaagttacgg aaacttacga atttcgtaat gatacttggt ttctttccgt aatggttacgg 240
 aaccttgagg attacataat catccccttt tttgacttac ggaatgttac gggacctcac 300
 taattgtgca acgatgcttc catttgattt ccggtgtgtc acggaacctt acggattgtg 360
 catcaatatt ttcttttggt ttccggcatg t 391

<210> 20421
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20421

tctcanaata tttattttatt atctttgcga attcttggtg cttagttatc agcaacaata 60
aatttttaaaa aaaaaaactc tagattctca agtcataggc atttacaaca acgatcacat 120
tagagagggtt gaataatata ttaataaaaa ataataactt tttgcaaata aaagttttat 180
cacagggttta gaaatatata tgttttggag tcatctactc atcagtaaaa taagtttaat 240
aaaacatagt ttgatcatcc aatatatcta tgaagtaata tttccaaaaa aggtttttta 300
gaaaacactt ggtcagaaaa aaaggtaaca aagaaaacta agataatact taataaaatg 360
gtttaataga gatataattag catttgattt gtactagttc acttaaataa aactaccttc 420
aattcttctt tacacaacta 440

<210> 20422
<211> 390
<212> DNA
<213> Glycine max

<400> 20422
agcttctaga ttagtgtact aaacaaccgc ggctccggcc aagctatctt ggaaaaagtg 60
tattaatagt ttctcatccc tagagtgcgc gcccatcttg cgacaatata tcttgagatg 120
gttcttgga caagtcgtcc ctttatactt gtccaagtcc ggcaccttga attttggggg 180
gataacaaca tctgatacca agcaaagatc cgccaatgga tattcaccaa agccttcaac 240
agccctcaat ctctcctcga ggagatcgag tttccatctt tcttcgatcg tcgggggttg 300
tccttctgtg gacaagatta ttggttggtc tgtgaagttg ggatgatgca aagtgttgcg 360
tgccggcccc tcgacgagga tcggtgggta 390

<210> 20423
<211> 444
<212> DNA
<213> Glycine max

<400> 20423
tgtgatgggtt atgttctttg gccatgtgat tgtgatacat ataacatttc aaaggctttt 60
tcattttttg ggtcgtttta tctcatcagt gccctttcta ggaaaaggaa aaatcgtaaa 120
aatgaaaatg agttggtgaa ggagatcaat accatcacia ttacacaata cctaacaatga 180

cccaacaagt atttctaaaa tctaagtgat acactgatac ttcttgtag cgtgtaagtg 240
 tgtaactacg aagacattta gaaaacgtgt catcaagctg tgaaaatatg aggtgcgacc 300
 cagtactggc tagcagcaaa agacgtttca ttatccctgc gagcaaagag aggtctttgg 360
 cagctttttc cagcgcaatt gatgcttaat aaaatctgtt ttatcttttt tttttcttct 420
 agaatataga taattatggt taaa . 444

<210> 20424
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20424

agcttgcatt atttacatct ccccttttct caagcaaatt cttcttgata tcatcaaaat 60
 cttcatgatt tacaggtgtc ttgcgggcac gatccttgca aacaataaat gacatcaaaa 120
 atcagttgag agaagggcat acttacctat gtcataatgg cgtgaccttg ctgggggggaa 180
 cgggcacat gtaggactaa cagaggcccg taaccagagc tgggaaccct agggccctgt 240
 tggactttct tgggtccact aggtgtcttg tgggcgtgat ccctacaaat agtggatggc 300
 atcagaaatc agttaagcca cgtgcatact tacctatgtc acgatgacat gaccttgctg 360
 gggggacggg catcctgtan gactgacaga ggcccc 396

<210> 20425
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20425

tgaagganaa ctggatgcgt tgggtcaactt ggtaacctag ctggccttga atcagaaatc 60
 tgtacctgtc gcaagggttt gtggtctgtg ctccctctgt gaccaccata tagacctttg 120
 cctttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga tacaacctg gatggaggaa tcacctaac ctcatggtt ccagccctca 300
 gcaacaacaa cagcagcctg ctcccttctt ccaaaatgct gctggcccaa gcagaccata 360

cattcctcca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgaggcccc 420
 tccacaacct tccctcgaag aacttg 446

<210> 20426
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 20426

agcttattcc acttttgtac caagactgca gggagctgac accgtcgcaa tgcattgataa 60
 gaaggaactt tgactaaggt taacacgcta aaacttaaaa aactaaaaaa tgaaagacaa 120
 aatgataaat ttactcttcc attttatctc caatatctaa ttaggtcatc attaatataa 180
 ttcacaaaat tgggtctttca ataatttaac tcacaaattt gatcccttat cttataaaat 240
 cgagcaatga tgggtctttca catcacaacg atgactcgga acatgtgacc gttgacatca 300
 cctgttaacg gtcaacgtgt aattgtgatc tataaaatat ctaatagcgt acgattgtat 360
 agaataaggg gaccaa 377

<210> 20427
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20427

tgctggcang nactgtgatg acgaaggaca ngatattgta accattatgc tcgaagaagt 60
 accacaatgc ggtggcataa acgagcaccg ggaccgctcc acgccaattc attcacaaca 120
 ccacatcaac aactaagcct ttgccgagaa cacgatgaaa ggatgagaaa ctaaggcgat 180
 gccagattg tcagaagaat gaagaatgaa ggggtgataa tgatcaatga cagccatgtg 240
 catgagagaa aaaaaaagag agccaaccag acatccgaaa agtccccata taaaacgatg 300
 cataagggga tgacttatcc agttatataa gaacttaatc atcgatgata tccatggccg 360
 tgagagacaa aaaagaatca ac 382

<210> 20428
 <211> 384
 <212> DNA

<213> Glycine max

<400> 20428

ttagcttgag tttaatgcat atttatataa agatataatt aaagtttatt agatttaaag 60
acttgtttga aaaaaataa cttcgataat tttttgaata agttcttatt atataaaagc 120
tcattataaa agtaattaaa attcaactag taacctattt gtgtttggat atacatatat 180
gttgataaga attggatata tacgtgttga taagagctta cataattttg aagtgtttgc 240
atgcaatgtc aagtgaactt ataaaagggtt atctcatttt aaaaattaaa aaaaaagtga 300
accatgcata aaagtaaata agaaattaaa aactaactaa acatttaata tactaacatc 360
atatgtatta caaaaaatat tcag 384

<210> 20429

<211> 429

<212> DNA

<213> Glycine max

<400> 20429

tataagaaca aaattgcctc aatcatttcc aaatatacat gtgaattagg aagcatcgac 60
aagaatcaag ccaagactat tgtgcaagca atcaatgggg caaacacac caaatgatta 120
tgatgatgga tgggtcaaatt tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180
aaaactatca tgacatgtag aggagaatca aggatttcaa gtcacaagat atcaagaaat 240
tttattttca aaacaattac ccatttcttg aacatatacct ataattcaaa gaaaaacatg 300
caaagtcgta catgcacaca aaattgaccc aaaatattaa actaaaaatc cgacgaaact 360
aacaattaa caaattaaca caactaacia attaacaaaa ccaacaaaac tagcaaaacc 420
aaagaacac 429

<210> 20430

<211> 382

<212> DNA

<213> Glycine max

<400> 20430

tagcttcttc cccagttttc tataaatagg gggagaagtg aagtagaaaa ggggttcagc 60
cccttacgca cttctctctc tttcgaattt gcttacaaaa attgtttcca tgaagaaaat 120

ccaagccgag gcgcttccat aacgtttccg tatgtgattt cgcgaatgtt ttcgaccggt 180
 cttcgacggt cttcattcgt ttttcacgt ttttcagtct tcaacgggta agtacctcac 240
 accaagcttt ttaattcatt ctatgtaccc gtggttggtt acatttgggt tcatgtattt 300
 ttattctcga tttcatttac tttttatacc cccttttgac gtgcttaagc catttattta 360
 agtcatttct cgcttaatct aa 382

<210> 20431
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20431

tcagcccaag cctcttgaaa tgcttgcat gcatttcaat gtatatacag atgcttctat 60
 tacagtacca acttggaac ttccacaaaa aataataagt ataataaaaa aatacaatac 120
 caagtaccaa cttaagataa caatttaatt agaattattt actgtcattc aattacaagt 180
 tgctatgtgt agtaaattta tcattttttt attcaaattt atcaattttt atcataatta 240
 ctataaaagt tatatttatg atgatttcta attgattgat attataaatt ttttaacact 300
 taaatgtgtg tgcatataat gtattgaatt taaaaacata atttatttgc atatttaata 360
 gtttcacaat taaaatacgt tntctatacg ttaaaaagat actatattaa atactagggtg 420
 gtgctgagat cactg 435

<210> 20432
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 20432

agcttggtga aataacttaca cgactgagaa aaagtgtttc tatgacggtt attttaagca 60
 ttctacgacg atttttgacc gtcacgtat cgaacgttgt gaattgtccc ttcattttta 120
 agacggttcc aaaaagaatc atcttagaaa agctatcatt ctatgacgat ttttaggcta 180
 attatcatct tacaatggta tctttctaag atggttttca acaatgtgtt taaaaaaaaa 240
 caaataaaaa gatgagaatt ctaagacggt ttttcacaa tcgtcttaaa aaatagactt 300
 tctaagacaa ttttctaaaa aatcatctta gaatgtacac tttttaatat gatttttcaa 360

ataaccatct tagaatatct ttttaa

385

<210> 20433
<211> 430
<212> DNA
<213> Glycine max

<400> 20433

tgtaacgtgg tcagggttaac aagaaaatca tgggtttttca tagattcaaa cacttagggt 60
ctaggagagc attcacccat tccatgtcta cttaaagaac cactttttct ttgacctccc 120
aacctttatt gacatgccac aaataacaga acatagaggt tttttttttt tggatgcat 180
ttgctttcag ctcatatttc cttttttttt tacgatgata ggtattacaa aagaatgtag 240
ttctgattct ctatgtatct gttactcata ttcttggaaca taatttaacc aaaacactcc 300
cccaaatttg gaacaaatct gtcttgatcc ataataatgc tctcctatag cctaagatag 360
ggtgcacaaa gatagcattt acatttagct taggggtcaa tgacacattc gttcacgttt 420
agggtcaaaa 430

<210> 20434
<211> 389
<212> DNA
<213> Glycine max

<400> 20434

tagcttgta cccagctcgc ccaggcgagc aagggtgctt cctccagaag caacagcctt 60
ctggaggaat cttctggagg gcccaagtgg gcctggttgc tatttgcacc cccattttta 120
ctaaatatac ccctgcctt tttttggtga ttcttttttc ataaagttac ggaaacttac 180
gaacttcgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggattacata 240
atcatgcctt ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
acttttgatt tccggtgtgt cacggaacct tacgaattgt gcatcaatat tttcttttga 360
tttctggcac gtcacggaat atcacaaat 389

<210> 20435
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 20435

ntcanaatgg aagggatcct tgctctctat catgggaatg ttcaattagt taaatttgta 60
 attcattgca ttcttctcta ttcatttgat gtctattctt ggtctgtgtc attggtgaag 120
 caatttgatt tatggataaa aactttattt aggctgggga cattcatcaa agaaaattag 180
 ccatgggtggc caggcagaga agtatgttca cgtgtcatag cctgnggatt gggcattagt 240
 tctcttcaaa gtattaataa tgcagctacg ttgaagctaa gttgaaattt ttttattctc 300
 taaggatcaa ttgttagaaa ttaggagaag ataaactggg ggattatgat aaacatcaaa 360
 catgaacttt taggttaaatt tgtcaagaat ataaaaaagt atgactgtag cataatcata 420
 tcggtatcca tggatg 436

<210> 20436
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 20436

agcttattct ccttcaactg cacaaggctc ttaatatttg aagagtatcc ttgtggaacc 60
 ttcacccgac gaagacactg acaaaaaactt atcttctcct tcttggacaa agtatggcag 120
 gctggggggca agtaaatttt ctcccatca gaccttggat gcaactgtga tcgtataccc 180
 atatcagcta gatcttgacg agtattcaag ccataccttca tcttgccttg aatgttaagg 240
 agcgtcccaa tcacactgtc acaaacattt ctccacatgc atgacatcaa tacaatgtct 300
 aacgtcaaga tcacaccagt acggaagatc aaagataatt gacctcttct tccatatgca 360
 actctgacta ttatccttct tttgggtc 388

<210> 20437
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20437

nttggtgaga aacaaagtgg caaacttata aaagtcttga taagtgacaa gggaaaagaa 60
 gtgagttttg agaggcagtt gactgttggc tatacacctc aacaaaatgg tgtatctgaa 120

aggaacaatc aaaccgtgat ggagaaagga ataccaaaag aattatggcc tgaggctatt 180
aatacaaccg tgtacttgtt gaataggtgc ccaacaaaag cagtatgaaa tatgacacca 240
tttgaagcat gaaatggaag aaagccttta gtgaaccaca taaaattttt tggatgtgtt 300
ttgctacgct caagttccta aagaaaagat tacaaagctt gaagaagcaa gtgagagatg 360
catctttatt ggctatagtt ccgtgtcaaa gggctataga ctctacaact tgaagaccaa 420
gaaagtgatc attagccga 439

<210> 20438
<211> 302
<212> DNA
<213> Glycine max

<400> 20438

agcttgttct tcatgatatg gaatgggtgct actcatatgc tatcttcttc cactactgtg 60
atthttgtttg actaacctct cagcgacctt gctatcttgg agaagctctt gatgaacctc 120
tcttccgacc gagcttacc tatgactcta ctgaggcgat gcacattgca tgggtggaggc 180
gactttacta tgatgctatc tctgtctcga ctatcttaat atcctgccgc taagagatat 240
ggcccgtgac tatgccttat tgttccatgt attgacactg ctctcaatgc tacaccttga 300
tg 302

<210> 20439
<211> 363
<212> DNA
<213> Glycine max

<400> 20439

tgccgcactc gcatacagga cctgggtgtgc tattagaagg gagatgggtg ccggctcgta 60
ctagatgtca catggactac ggtcctactg ccaccaccga ccttttcaag agatctctaa 120
ttagacctca ggataaacga gcgggcgaca tgtgctgcga tcgatccac tacactgccg 180
tcagactatg catgaatatc ttccgatcca tgttgtactt aactcccatg tgtcacgact 240
aaccactata cacttgacta tatgcattaa ccaaagtagc ctgactaacg accctgatag 300
acatgtgcgg tatagtgtag cgccacaatg gaacctctta tataatattg atataccact 360
cag 363

<210> 20440
 <211> 376
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20440

tagctttaca actagtttct gtcttcacta ttttattctt gtctggttgc tcaaattaaa 60
 tgtattgttc taatttttta acattgctat ttttctttgt atgggaaaac acaccaact 120
 caattttttt tgcttttgat gtccacccca acccaattat gtgtgtttta gttgtattaa 180
 cagtgtcatt tgttatattt tgtgataact gggaatttca ttctgtgatt gtctgtttgt 240
 gtactgggct ggctntattg cagatgcaaa ggagacactc tcttgttttg taatttcctt 300
 ctctctcact ctggtgtctt aaagatgaac acgtatgtat ctaccagttt tgattgcttt 360
 caaaattaat acacta 376

<210> 20441
 <211> 430
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20441

tcaataacta cattcacgac tactctcaaa atangggagt taagtagtca tgcgtttaca 60
 catcaagaaa gacacactca tccaagatat atatatggtc cacaagggtc ttgcaacact 120
 aatccacgca tcaaaggaga aatacgctaa ctaacaacat acacacagga tgatagaggt 180
 tcgttagcac attatcaatc aatatcaaga ctacttgcac caccatgg cttgccataa 240
 tgtccaaccg cacttcgcaa attatagaga tggccagtct cataactcat gactcaacaa 300
 tgaatttatg gtatagcaaa cattaaggat gcgcggcaca tacaagcatt attattaagt 360
 cttatttaat catgtaggag aaaatacgaa taaaaattca agcatgctca acaaaagtac 420
 tcataggtaa 430

<210> 20442
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 20442

agctttgata cctcttcaag agtcgaattt gcaatccaaa gtgattgatt ttgttcttcc 60
ttctagaggt tgggaattttc aaaatttttg caaggccctt cgtttggata tttgtgatac 120
tgtccatgct ttgttccctc ccatcattac tcacctaag gatgtggtag cctgtaagca 180
taaagttgat ggatcctttt cgttggcttc tagctgtgat gctctttgga aacgttggtg 240
gtccaaatcc tctttttgaa gcaatctgga agtggagggg tcataaaaga accaaagtcc 300
acctttggaa aatggctcat caagccctgc ttacgaatca gagtagactt agaagtcaca 360
tgactaacia tgctacttgt ct 382

<210> 20443

<211> 427

<212> DNA

<213> Glycine max

<400> 20443

tatcagagca atcagaggaa aatcttgagg aatgttaggg aaccattaga gatgtcgcta 60
tcgctgccgg aacacacgtg agcccgtta gaggtaaggg atgagttatt cacaattgag 120
gaatagttag aacatgtgta gggatcctta gaatatcaat tggaatgggt ttttgggggt 180
gtttttgcaa attttgattc tttttttaca attataactg tgaattatac atgtttgaca 240
aatcaattga tatcccaatg agaaatttcc gtgaaattga tgtatttttg tgttgagtat 300
gaaccctaaa aattgagttt ttttttaatt aacataaatt gtactctaac taatattctc 360
tttgattgtt ttttttatac aaattattgt aattttttct atatgattat gtgaaccatt 420
tgaggga 427

<210> 20444

<211> 384

<212> DNA

<213> Glycine max

<400> 20444

agcttatttt ctaagagatc attcatccat agatcagacc ttacttgta ttaattccca 60
accaacact tgcttttttt taagcactta gctttcattt cattgatttg cagcacacac 120
acttttattt atacttacag ttttttttaa cacacaaaac tatgtgtgta tgctgctctg 180

ctttgaccat ttcattcttt taccatgtc tcctccaaat ttgggacaaa tttactttga 240
catataactc cgcaaaatth gagacaaatt ttccttgaac caaactgttc tgtggatgat 300
gctctcctac aacctaagac aaggtagcag gagataaaac tgttaagctc aaagtccatc 360
aatcaacatt attcacttaa aagt 384

<210> 20445
<211> 443
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20445

ntagaccaa gcaactcana atctaggtat ctaaaacctc tcaatntagt ggattttcaa 60
ggtttgagaa gtgaaaatga gaatggggta aatctggagc aaactctcac ctcacacaag 120
tctataacct taatctaaac ttgggtcaaac tggttttacg cctaaaattc caccaaata 180
aaatttgact cctcaacacc caaattttac cctagaaatg gctcttgctt tcactttggg 240
cttttgtttt tctctcttgc acaaccaag ctntctcata agtcctaaat gacatttcaa 300
actangacta actcactnta acctccaatt tctactgaat ctagatttag cttttcaaac 360
cctcaaagca tcacactttt ccaactcataa cactacattc tcactttcta accctagatt 420
aactctacct ttcattcccta gca 443

<210> 20446
<211> 436
<212> DNA
<213> Glycine max
<400> 20446

tgtaatatth gagagaaaaa gagaatacca gtccatttcc tgtgccaaat acaagtctcc 60
caagcaccaa tacaggaaaa ttaggagcta atgctgttac aagggtccca acaagatata 120
ctactgcaga tccaatcaac tcctttcttc tacctaaaaa atcaaatttg tcacaccagt 180
ttcacccggg aaggaaatag caaaaatgat agctgacaaa aggggaaatt acctaagaag 240
tcagcaacat tgaaggccaa cacagagcca attaaggcac catacaatga tccactagtc 300
tgcaaaagac agtaaagcc ataggcccag gttatattca agatcaatat atatatggag 360

taatttcaat tgtgaacaat gtgtctaate ataaaaatga caataagaca atgtaccatg 420
 accaaagaaa aacaac 436

<210> 20447
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20447

agcttggttaa agaattgatg agtttggttag tnattcatga aaggctaatt ttaaagattc 60
 aagttcattg agatccacct cttttttttt attctgattc ttcaaaattt gtattaacca 120
 tcagatatat gctggcttcc tcttctcctt cttcatcaga ggggggtgtc gtcacatcct 180
 cccaagtgtt tatgagactt atctcttctt tggactttta atgcttggtt tagtcctttg 240
 atttctcaag ttcttagcac ttgacttga agtgtccaag cttctttcat tcattgcata 300
 taatgagact cttttatgtg tcttttttct ccttgaacac cttcttggag gatttatcc 360
 a 361

<210> 20448
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20448

tgcacttctt cactctcttc aggaatttca accttnttcc cactaagatc tnttagctat 60
 gggagccaag ttatcgcttg cgttctagac ttcaaccatt tgtaatagct gcctatgaca 120
 ccattgctac ttcccctaag ctcttattt ttcttttcca ctctattcca tgctttacga 180
 attctctgaa gtatcttcgc attagcttca ttgaaacctc acgcgatgaa aggctcaatg 240
 atttctctg atggcgacc tctcataggg tagcctaact gtcttatggc caacacgaga 300
 ttataattaa tacaaccctt cgtccttate aaaggacat ttgggaatcc ttcatatgat 360
 cataacactc ctgcccncct ccgccttct tttcatcggt ggaaccaact aatggatgct 420
 cccgtcatgc cta 433

<210> 20449

<211> 370
 <212> DNA
 <213> Glycine max
 <400> 20449

agcttgata gttcccctat ttatgggtat ttcttattaa aatgtgtaaa taaatcttgg 60
 tatatgggta acgtttgctc taaaacattt tcattagaat taaagatgaa atctgtgcat 120
 tttcacgtga aaaccaatgc taagttttga attgcaaaaa gtagtagttg ggctaagctc 180
 aatagtttgg ctaagcacat aatcatcact aagcgcagct tcaacacact tagcgcaaag 240
 gagaatcttg caaagcatca acatccaagc cgcgcgctaa gcacagcatg tgccttcagc 300
 caggctaagc tcgggacatg ccttaagccc gaaatcactt actcgcgctt agcgcagcat 360
 cgcgatttca 370

<210> 20450
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20450

tatccttatg gctagcctcc ggacttcact ccccggtgcc cccataagat ttaagccaag 60
 cccctacttt cgaggggag ctcccacatt atgacgacta tcccgggcaa gacgatgagg 120
 aaggagatac ccatctcggt cccctgctcc acctcaaaga tccgtcccc catgaactac 180
 cccaacaaaa catagtccgc catatcccgg cttcaccac acccgtaaaa gaatctgttc 240
 ccttcgtgga agataaggga aagattgagg cgcttgaaga gaggttgaga gcagtcgagg 300
 gcctcggcaa ttacccatcc tcggatctag cagacttatg tctagtaccc aatatcgtca 360
 ttctcccaa attcaaagta ccggacnttt gatagtacaa agggacgaca tgtncgaaag 420
 ggcattctcg gatgtattgc cgaaaaatgg gggagtatt 459

<210> 20451
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20451

agctattaat tctagtcttt aaactcctca agcatattct aatactcatg catcttttac 60
 attcaaaaact ggaaacttag attcctaggc atgagtcac cttttggcgc tttagtctag 120
 cttctacaaa ctacccacac actcacaatg cgcantaatt gattcgcaag ctaagttcca 180
 caaaatcatg cgcaaattggc attgaggcat ttcaccgaac acttgggtggg ctcatgttta 240
 agcctgaaaa tcaagggaat gggggacatg tggcatgccc ctttatctca gaatgcaccc 300
 tatgcctaat gccataccct acaaccccat aattcaacan aaacaagaca tatttcaagg 360
 ataaaatcct cacattctga gcaaatacat gcaacttaga ccaccaacat atatc 415

<210> 20452
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 20452

gatctggttg aaatatcttg ctagaagggtg tttctattat gcttgtattc caagcattcc 60
 tgacatactt cacttggcac ttgaatgtgt ggcaaccagt gcaccatatt atccctatgt 120
 acgaagtgtg gatcctgaaa ttgagatgcc caaacttata atgccaaagc cacttacttt 180
 tgctcactgt tgtggctaga cattcatgtc ccataccatt aattcctacc ttaaaggatg 240
 tgttctttga cataagatcc tttaaaacta gtcttttctt gttgtcatat accattagca 300
 cattatcctc cattttcatc acaaatcctt tctccaggaa ttgaccaagg ctttaagagat 360
 tattcttcat ttcgggcaca aaaagcacac cagatatgaa agattgttta ccac 415

<210> 20453
 <211> 491
 <212> DNA
 <213> Glycine max

<400> 20453

agagatgtga tgctgatgac gtccgtataa taaaactct gcgtgggcgt gacaacatct 60
 gaggggtgct acatctttcg cttatagccg aagtcacacg gtcatagcga ggcgattatg 120
 tcatgtgaga ttatatcgga gcaatctctg accttaacga agctgtcaac tttatgtata 180
 cttggggcac ttgggaacac gcctaagag actcgaatat ttttcaataa tatggaaaca 240
 atttgtgata cccgaacatc ataaatagag gtttttggct tgtgaggtga ataattttg 300

aacaccacat ttctatatac accatagaca aaacggatta taatgatcta ataacagtag 360
 tgctgattta caattattgc agtttcaata tgatattgat tgccaggcga cccgatcgatc 420
 gaacactagc cggatacgcc acatttatcc gaggatgtgg cacttaatca acgatgaaac 480
 ttgcttaatc g 491

<210> 20454
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20454

agcttgtttg cagaaactta accttagaca gcataaaca cgtgaagctc ctagtacaat 60
 attacatgga aacgcccagc aattcatgaa atcaaactga attttgatgc atcggttaat 120
 aaggagaaaag gaattggcat ggaaatggta gcccgaatg actatggaga ggtgcttggc 180
 tcagctatct gtgtaatgaa aatgaatgtg gaaccaaaga ttgcttaagc cctatgttat 240
 agacgggcta tcaaagtggc gggtgacttt tgtttcacat gagtngggtt tgaaacggac 300
 tgctcaact agtccaacgt aggaaacgca acttgatcac atgcagagat tattttctcg 360
 gcattcattg tgattgcac tcaac 385

<210> 20455
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20455

tggagaggat gcttcaatgg agganaagat agaggagat atagagagag gggggagcac 60
 gatattgaag gaataaaaga ggtagagaag tggaactttg aagtatgtct cacaagaccc 120
 tcattcatca aagtacaac aagtgttaca catgcttcta tttatagact aggtagcttc 180
 cttgagaagc tntcttgaga aaaattcctt gagaagcttc tttgagaaaa cttccttgag 240
 aagctagagc ttagctacac acaccctct cataactaag ctcacctcct tgagaagctt 300
 ccttaagaag attcctaaaa aagctagagc ttagctacac atacctctct aatagctaag 360
 ctcacctcct tgagatgaga agctagagct tagctacaca cccnctataa tagctaagct 420

<210> 20456
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 20456

tgtttgcaac ttgtatgcat gtatcccacc atcgtctcat agtagaacac aggtaatgcg 60
 tctactatta ttgctatcat tctctttcc atcattgtgg gcactacttg agataccaga 120
 tcccttcacc tttgggcata tactttgaaa gattcatgct ctctcttaca catgttctat 180
 aacttcattc tattcaaaac catatcagaa tcgtactaat attgocatt gaacgcaacc 240
 ataaagtcct tccaagaatg gaccgcgaa gatttccgat tagtatacca tgtgatggct 300
 gcccaataag actttcctag atgaaatgca tcaccatttt ttcattcttt gtgtatgctc 360
 acattttcta ccatacatct taagtattc ttg 393

<210> 20457
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20457

tcagtgtcac aagtttccga ccacgaccat ggtgtatttt tcacaattgt agtgtgggtt 60
 ctggctgata tctttaggaa gctataaata ggggttgttt tctgtatcta tgaaatcttt 120
 tacctaatta cgaatttaag agtnttgaag cgtggatacc accatgagga tgaattatgg 180
 tcatcattcc taccttgccg gtatgtctat gctaatttca tatatgtctt tgagttgtgc 240
 tttgatcatg agcgaccagt caccatagtc caagggttat gatgtaacta tccaatggta 300
 tccctttctc tgatcttaat gaaattcctc actcttttat gttaactaat actcttctta 360
 ttcttattgt caattgggaa ttagtcaatc taagcttaat gaatgtattg tgggatgatt 420
 ttgttgt 427

<210> 20458
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 20458

tgttgcaagc ttgttcaacc tatcaagagt cacattctaa caacaattgt tccagcttgg 60
agaattcatc aatggatgga tacatggagc tataagaaca attgataact gtttaatatg 120
agttattttg ataataagaa tatattgaaa atatttttaa aaatatttat ttaacagtta 180
ttcttggtt aaatattaag atttgatc tttcttatt atgacgttgc catatgaaaa 240
ggagagatta aaagagataa agatcgaaaa aatatccaag atatcaggaa atcattacta 300
gctaaacaaa tcctaaagat atcacaaata tcaataatga agatttttaa catcacgccc 360
aagtcactac aacaa 375

<210> 20459

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20459

tgcactacta gtagcttgcc aacgtggctc caaaattggt atgatgagag aagtgcata 60
atggaagatc aggtttgtat cataatagtc acattttgac tcattaaaaa aaattattaa 120
taggatttat tnttttaaag catttctgat ttttttcccc ttcttaaaca ggataatgca 180
aggcttaagg atctgtgcaa gacatggaac tcattatgca actcaatata cagacaccct 240
tcattaatg agaaacaagt tttctttggt tcatcatctc cttcatctcc cacttctgtn 300
tcctcacatg aaagaaagtc caactttcac cacagccacc taaataggcc aatcatttct 360
gaatcagaag agtcacacaaa tgaatgtgag tatacactga aactggtgat gatggctatg 420
atagcaactt tataatgttc atgccagata gt 452

<210> 20460

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20460

agcttggtac aagattctcc ttgctggca cttcaaaacc ttctggttgg gtcatataga 60
tgtcttctc taaatcccca tgcaagaatg cagttntaac atctaactgc tccaagtga 120

gattctctgc agctactatg ctccagaataa ctctgatggg agtcattcttt acaactggag 180
 agaagatctc tgtgaaatca attccttggt tctgctgaaa cccntcacc acaagtctcg 240
 ccttgatctt tcttctaccg tcagattctt cctttagcct atagaccac ctattctgta 300
 atgccttctt tcttctggc aatntagtta aagaccacgt cttattcttt tgaagggatg 360
 tcattctatc tttcatcgct agctccact caatagtgtc a 401

<210> 20461
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20461

tctccgtctt ttcctataa ataggagca aagggaagtt tttagacgtt caaccttctt 60
 ggtatctgag gatcacttga aattagtga aaaaaatcgt ttcctgaag aaaatccaag 120
 ccgaggcgct tccgtaacgc gtctgaaacg tttccgtggg tgattccgtg aagattttcc 180
 gccatctatc gttcgttctt catcgttctt cgtcgtcctg cggctcttcaa ccgataagtt 240
 cccgaaatcg aacttttcaa ttcattctat gtacccttgg tggttccac ttgtttcgcg 300
 tacttttatt ttcatttcat ttactttctg tatccctttt tgacgtgctt tagtcattta 360
 tttagtcatt tntctcgct aatcaaaaaa taaaataaat ntccaccgat ca 412

<210> 20462
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20462

tagcttcttt tggactttga acaagccatc aactcctctt tcagaaccat gctatgtgct 60
 cgcgactggg ccttctcttc ccttcgcaac ttgagttcat tattgctacc ccatagagct 120
 ccgcgaaatt tgttccggcc gtactcttnc ttgcgagccc tcttggtctc ttgttcaaag 180
 gcttttgccg taattgcatt ctcttcccg acccgcgac tcttccgaa tgtgtgtagc 240
 agccaacttg aacttctcct tggcgagtat tgcctttcct aactcgcttt tgagagcttg 300
 gacttctcg tcttcttccg gcgcttcaaa atctcttccg tgacgactnt taacttggcg 360

agccaatcta aacctcgat g

381

<210> 20463
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20463

tgaaggacat gcacaaagta tgactatatg atgtgtcaat ggngtgtagc aagcaaattgc 60
tcacctcccc ctctaaaatt taattggatt gggattctcc caattcaatt aaatctatatt 120
tccaacacac acatganata ttcaactcaat tcatgtgaaa ttacaaaact acccctaata 180
caaaaactag tctaggtgcc ctaaaatata agggctaaaa aaatcctaca tttctaggggt 240
accttctcta tattatggag ccctaaatac aaggccgaan aataatgaaa ccttaattcta 300
atatgtacaa agataagtgg gctcatactt agcccatggg cccgaaatct accctaaggc 360
tcgtgagaac cct 373

<210> 20464
<211> 339
<212> DNA
<213> Glycine max

<400> 20464

tagcctttac attcaatttc gagcgtctcg atatattacg ggactcaatc agacatccga 60
gtaaaaattt attgtcgctt gaattggctc agaggctcaa cattcaattt tgagcgtctc 120
gatataattac gggactcaat cagacatccg aataaaaagt tattgtcttc tgaattggct 180
cataagttga acattcaatt tcgagcgtct cgatatatta cgggactcaa tcagacatcc 240
gagtaaatat tattggccgt tgattggctc acaggctaac attcaatttg agcgttcgat 300
atataacgga ctcaatcaga catccagtaa aagtattgc 339

<210> 20465
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20465

gtgagcaaat tcaaacgaca ataaccttnt tctggatgtc tgatngagnc ccgtaatata 60
 tcgagacgct caaaattgaa tgttgaacct ctgatgcaat tcaaaggaca ataacttttt 120
 actcggatgt ctgattgagt cccgtaatat atcgagacgc tcgaaaatga atgttgaacc 180
 tatgagccaa ttcaaacgac cataactttt tactccgatg tctgattgag tcccataata 240
 tatcgagagg ctcgaaattg aatggtcaac ctcttagcca attcaaacga caataacttg 300
 ttactcggat gtatgattga gtcccgtaac atatcgagac gc 342

<210> 20466
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20466

agctttgact tgagtcatca agagattata aatatgtgac catggcatga gtttcaagat 60
 catcaatcat ctttgaatca tctatctttc aatcttcttt caacattctt caatcaatct 120
 tttcaactct ttctacagca atttcggatt catcttctct tcatctttct tcaaagtttt 180
 ggtcaatact ttctctttca agaaaagttt ttgataaaa aaccttgtgc tattcatctn 240
 tntcattctc ttctcttcca tgtcggcctt catctgcctt tgcacctcct gaattctttt 300
 gtgtctctct tctcccttac acaagattct aaggactaac cgcttgagaa tcttttggat 360
 ctctctttcc cttaagcaaa gagtcaagg gactaccgcc tgagatattt 410

<210> 20467
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 20467

tcacagatga ccagtccatt tatcatccca ccactcacgc caacttatga gttggagggt 60
 agacccatgc atatgttttag ctcttggtt ctattcccta tgtcaataat cgcgaaaaag 120
 aagtttacta caggaaaaac tacattaaaa gctctctatt ccgtctagtc tgatattacg 180
 taaccagtcc atttcgtatg tctttcgaag cgaggggccc ggtttccttg tttcctttcg 240
 gaggacatgg tacatgcctt gcaagaaaat agtctttata ataataatta taataataag 300

aagtcctggt ctctctcggc agctaccatc ggatcatcgg agttgggcag ttacatcttt 360
cattcaataa ccagtggttg aaggttgatt cccaacaaga gcaacatggt caataagatg 420
ggagctaaag gaagactcac ata 443

<210> 20468
<211> 253
<212> DNA
<213> Glycine max

<400> 20468

atacccttgt gtacatcgct ccatgctatt gagaggacga acacgaataa taacttacac 60
atacaaaaaa attcccataa ataatttaca atttataaat taaaagaaaa gaatggtaga 120
acaaacctga gagggtaaataa gggttgtcaa cctcaagtcc gtgactgcaa atcattgaat 180
ccaaacctta gcttcaaatg acctgcaaat gtaggctggc ccacaaatac attatctatc 240
acacactata act 253

<210> 20469
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20469

tagcccatca tcaatattga tttcaagaaa caaanaagca agtatatata tcagtgaact 60
gagccagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctaattttat 120
aatcagataa agcatctaag acctgctgcc atgtggtatc aacaagaggc agccgccgag 180
cattgccagc atcaaaatcc agtacaccat aatccctcaa ccgaatctac acagcaataa 240
ctaaaataag aagtcttttg agaattaaat gcatggcatt atctataaga cacattgttc 300
aaaatgagac aaacccaaag gaaggcacgg attctttgca aattcccaac accaacacca 360
agagcagcct accattagat aaaaaagcaa gcagaaatta agtggttgata acaaaaacaa 420
attcatgctt gctctcttat atngaatatg aaac 454

<210> 20470
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20470

agcttctaag aagatgtact actcacctaa tgtcacctaa cccacatggt gcatctctaa 60
actcctataa aacttcatct tcaagataca ctctctttgt ctttgagctt caatactccc 120
tttttggcca cataactaac tacttgagtt ttcagttaag tatttctaag tgatcaattg 180
tcaactcgta aacaactatg aaactctacc atcaccaaac aactaaaaga ctcaactcaat 240
caatgcctac aaagctactc taaccatcca tgtaagtttg agcaaaacaa cctctaaatt 300
aatttcaaat tctcatctaa taattntttt tggatattaa atcttaaaaa tctatctgac 360
tttaaaggat gcatgaatgt gcaactcaata gtaattttct tattaata 408

<210> 20471
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20471

tccatcaaat gaaaaccttg atctttgttc cctctatcat tatcattagt aacctagagt 60
atcgatgtca atattattct cccaaccatc cttattttct actntcacca ctcaattctca 120
ctatcatcca agtatatcca caacacatgc accacatcta gtgaagggct ttatgaagaa 180
cttggcaggt tctcagataa cattgcaaac aacatgacaa ttttaactga ttcctttntc 240
tgtttgaatg agttgcanga atagagggtg caaggaattt gagtttaatt tggctactat 300
gatatacagt tttttatttt caactagatg tgcataaat aatgcactca ctctntatga 360
ttgcatcctt aaaataaaac cacacagacc accataacaa anaataaagt tcttcaatgt 420
tcatccatac ttaatcctt 439

<210> 20472
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20472

agcttctact gtgaagctat cttcgtatcg agcatggcca aatatgcatg acagtcggtt 60

tgcgctttac aagttgccat tgcgggttcc caaagatgac caagaatatg ctggtttatg 120
 gggaagaact tttggttggc ctcttgaaa gccttctgaa gacaagcctg gaaaggcttt 180
 attctttctt ctgctctctt atgaggagtt ccagggacaa cagcttctca ttgcaaccaa 240
 aattttggaa ggcacacact atgtgttaca tcctaacggt tcancaattg ttacagcaaa 300
 tatcaatgat ccttcatccc aacccttttc ctgggacact gatgcagact 350

<210> 20473
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20473

tatcagcaac gaactgagga gtcccaaact cttcaagagt ctttaagacga actgngttta 60
 ccacaacccc aatattgtta cttcccatat ctgcctcttg aaacaacaca gttgcccctg 120
 ctttatcaac ctgttaaacc acattagcaa agactgttcc ttttaagagaa aaaaaaata 180
 caattattca tgatatgctt attntgtctt cgccataaac acaatggtaa aaaatcaagg 240
 gatgtcagtt tcatgtcatt tctgtttcct gtcatttcc taacagtttt tcctttattt 300
 ttctcacttt ctagttgaaa ttgtagtatt attattggta ctattgaaat attattttat 360
 attattaata aatactatta tataacaatc aattcccact tgcaacaagt atctatcaat 420
 tntgctaact ctctaattgt gtgaatcact 450

<210> 20474
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20474

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 ttcacccgat gaagacacta acaaaaattt atcttctcct ttntggacaa agtatgacaa 120
 gttgggggca agtaaatttt ctcccatca gaccttggat gcaactgtga tcatatcccc 180
 atctcagcta gatcttgatg ggtattcaag ccattcctcg tcttgccctg aatgttaaag 240
 agagtcccaa tcacattgtc acatacattg ttctocacat gcataacatt aatacaatgt 300

ctaacgtcta gatcaaacca gtacggaaga tacaagagaa tggacctctt cttccatatg 360
caagtcttaa ctttatacctt tctttgggtc tttccaaata cagtat 406

<210> 20475
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20475

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tataancaac cttatcccac cattgatcat ccaacaaagt atctttcaca aatttaacct 120
ttgcaacatc atcttcccta taagaagacc attgggtcact aatgatcatc tcttggaggc 180
ctttcttcaa tagtntgaat ctcttgagca ttacaatagt ggaggcaaata ttttgtggag 240
caatggaaag caatttcaat gaatcgaatg aattgaaaat tgatagtctc atagagtgc 300
tcatgacana gttttcacia atattgcac atccgcatat tgngtgatcc aagaacattc 360
ttcataagca acattatctt tttctgtatt cttgggtgca catatgttct tcanagcang 420
aattaatgta tggacaacac atggagt 447

<210> 20476
<211> 357
<212> DNA
<213> Glycine max

<400> 20476

ggtttgcaag cttgttcttc attctctacg ccgacgccac tggatttcaa atgcatatct 60
gcaatatctg cctgcttcca cactttaact aatgtgtact ttgataattg gatttttgca 120
ttgcttgttt tttccctttc attgcaggta tatccagagc acatgtgcca cctctgggga 180
aggactatat gaagggtctg actgggtctc caacaatata gctaacaagg tatgccttga 240
aaatctgcat cttttgtgtt cgttgcttga cctgtgatac tctgatttct ggttactttt 300
ctggatcacg cctaaggagc attttgtgga atgccgctat cttcttgctt gctttac 357

<210> 20477
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 20477

tccttcactc ttccagcagc accaaacaaa tccaccacgc tgccatatat ctctatatct 60
 ggtgttatat tataataact ggtcattaat ctaaaatata tcagcccttc gtccactaga 120
 ccagcatggc tacaagcact tagaactgcc ataaacacca tcttatctgg tttaatatga 180
 tgagaatcat gaaacaggcc aaatacagtc taaaggccca agtggagaag gacgaaggcc 240
 caagtggaga aggacaaagc ccccgagtgg agaattgatga aggcccaagt ggagaaggat 300
 gaaggcccag aggcagagac actatcaaga ctattaattg ttgctgaagg cccaaactaa 360
 tttgaaggcc caagttaaata aagtttctag ttataattta tttttattgg aattttggcc 420
 canactgtct agaaagccca tgtctatttt tatct 455

<210> 20478
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20478

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 aaacagagca aaggcagaaa actctgcca aacaccaacc aaaaatcaca gctgttccca 120
 ctcaaagacc ccagtaacaa tgtccttcga tccaattcgt taaccgttgg atcgactcca 180
 aagatttact ggaagtctat agtgcataag cctacattat gaccggtggg atctactagc 240
 aaacatncag aactcattct acattactct ttccacaacc agcaaataca tggatgtttc 300
 tgcacttggtg cagaattctg ctggcacaat ttacagcaga atctgcacaa agagcatatt 360
 gcgaaaccac acttccttca tcaatct 387

<210> 20479
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20479

tgtgccttta cganaagggt catcgagtca agttgaagta tggaagtaac catcttgcaa 60

aaaattaagg caaaagatgg atcgtgttac atcgtgtgctt cgtctactgc caaacacatt 120
 tagggctggt gatgtccctg ttacttccag tttcaccttg acgaagatgt catggaccat 180
 gttgaanatc taaattgatt caaccccata tctagtgtac aaattcgcaa tacttcaact 240
 gtgcatcatt cgcatacatc catgtttgtc attggttgca ttgctcattg cattctttcc 300
 ttgaaaaaaa aagaacttaa tcattgttat atataaaaaa aagaaccgcg tntacggcgc 360
 ccttaccaaa cctgtgctag agctagagta atgggtaaag ca 402

<210> 20480
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 20480

tgaatatatt tatgggctca atactgcatt caaataaaag actatcgacg ttcaacgttc 60
 ataggatgat acgcttcaaa tcttgagcga ggtaatctct tacgggacac acccggcac 120
 cgagtaaaag ctatagcact tgatcttctc aaagttccat gattatttcg aggactggaa 180
 acgaacggag actaggtacg tccagtcaaa tttatgtgga tgactttata agagcttctg 240
 gaaaaattcc cggctctaaag acacggcatc ttgagactct aggaacagca cgtagtga 300
 tacttgagat tgtagaatat cacaatcggg ttttcgc 337

<210> 20481
 <211> 306
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20481

tctatataag ctgaccgatc ccatcgataa acacattgng ttttgatac agaaaaccac 60
 agtgcattcta ttttatatta ccgagagtga ctctcctaaa ctcttgagtg atacaagatc 120
 accctggctg catcaaagga ctttcacaac ctttgagtgt tgccctcgct tgatacagt 180
 actctttgct tacttacatc ttcaccgctc gttctttgca accaccattc cagaaaatcc 240
 acctctggcc agaattatct cgtggccata actcccattn tacgcactca tattaagaga 300
 ttcttg 306

<210> 20482
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20482

agctttttat atcgngtncc ttactatgtg aagctggcat cctcacatgg cacgtgaagt 60
 ttatgatgca tataaattca taaaaggatg tatttttagtt tgtcccactt gttcttcgtg 120
 aagttaagtg aaactcaaac ggtcaggatg tgaataggga gatataacgt tgggtacggag 180
 ggaggaataa gttgtgggat tgaatctttt tactaacaag aattaacaac taatatttgt 240
 tgataaaaaa tcaataacca atgtgaatag ttaaaatcaa agagagaaaa agttatatatt 300
 tatcatatta ttctaacggt taatactaac ctgcattgat ttttttaaaa aaagtaacct 360
 ggatcgacat tagttggaaa attaagtgtt tttctatgaa gtg 403

<210> 20483
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20483

ntactcatga ccaccaatgg tctatatata tgtgacttat tcacgaaatt actcagagat 60
 tntcagaaca acaaagtgtt tatectctca aagagcaaat tcattttatc ctcttaagaa 120
 ttccctggcc aattcaattg caattcatta aggaattatt tgagtgtctca atctgtaaaa 180
 tccatctctt tctagagaga tttgttcttc ttcttcttct cattttctaa gggattaaga 240
 gactgtgagt ctcttggtgt aaaggatctc taaacacaaa ggaaggattg tccttggtgtg 300
 tttagaactt gtaaaaggaa ttacaagat agtggaactc tcaagcgggt tgcttgngga 360
 ctggacgtat gcacaagggt gtggtcgaac cagtataaaa ctgagtttgc attctctctt 420
 cccttaatc 429

<210> 20484
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 20484

agaaaggaac catctnctcg acaattcttt aatctcaaca ccaaaaacag ctggtgcgag 60

cgccctcact aagactgggc ggctggcaag tctctcgag agataatcag acaggtcatt 120

acaaagatga acatcttccg aaagaactaa ttcaagacct cctttaagaa cggaaatagc 180

aagatttttt catgaccctg gatgcattaa ttctcagagt catatgagag gctatcaagt 240

cggtaacca acggtataag agaacttaag aacactatgc tatctatatc gacagcgac 299

<210> 20485

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20485

agcttatagt acttcacttg aaacattgtc tttcttcccg actaactaga tgcattgcaa 60

agggaaagta atcaactcat ttcttctgca taccaacatc ataggatcaa gaacaccgtg 120

acaaaagtgt gatttgaggt atgtttgttt tatatctgcc gataactacc ttgcaagccc 180

taaaatcata caccatttgt aattcccatc atgtcatgaa tatgacacat aaaatgttaa 240

tcaatctcat tctgacacca atttcaataa ttacagtata ccaacacata ttatcactca 300

agtgattcaa ccatgatata tangattgca ctatagtcac aaagagaaca catttaagaa 360

gaatgacatc ctaatttata tcaatactat aaagctcta 399

<210> 20486

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20486

tctagaattg catgtaaaaa atatatggca taatttgctg taaaggaagc tttccactca 60

agagtgtgaag tacatccatt ccatgttctt aggatcaaca aaatgcttta atgtgctaga 120

gctgatagtg tttagtctgg aatcagaggt gcatctagaa agtcacaggg aacatgtgct 180

agagtcacca ttggtcaggt tctttntctt atgtgttgta aggagaacaa caatcatcat 240

gcacaaaagg ctctttgtgg tgctaagttt aagttcccta gtcgtcagaa gatcatagtt 300

agctggtgtc agaccctaatt ttcatatggg ggcaatcatt tgcaaacatt tggattcttt 360
ctagccgaat tgagctgctt aacacttgat tttgcaatca tttcaccttn gaagtcatga 420
ttttgcacac tttga 435

<210> 20487
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20487

agctntacta atagaatcat cttgatatga ctgttttgga agtcctctta cgaggctatg 60
cttttgaagc tttgagatta acctccagct agcatgggtca aacttcttat tccatacnca 120
gtaatgctct ttgactaaaa gtaagcatga caccttttga ttggatagat caccaagttt 180
aatcttatag tgatttcctt gtctcttagt agacaagagt aaagagttgt cctttgtttg 240
gatgatacac atatccttgt taaagttaaa ggtgacattg tatccactat catacaattg 300
acttatgctc aacaaattat gcttcaatcc tttacaagt aaaacattat tgatagaagg 360
ataataagga atacaaacct tacctacacc tatta 395

<210> 20488
<211> 462
<212> DNA
<213> Glycine max
<400> 20488

tatgctgcaa acatctacaa tagacctcct caacctcagc agcaaaatca gccacaacag 60
aataactatg acctctccag caacaggtac aatcccggat ggaggaatca tcccaacctt 120
atgttgctga atccttcaca acaacagcaa caacaacaac cttactttca aaatgctgtt 180
ggcccaagca gaccatacgt tctccacca atctagcaac aacagcaaca acagaaacaa 240
caaacagtta aggcccctcc gcaaccttcg cttgaagaac ttgtgaggca aatgactatg 300
caaaacatgc agtttcagca agatatcaaa gcctccattc agagcttaac taatcagatg 360
ggacagttgg ctacacagtt aaatcaacaa cagtcccaga attctgatag attaccttct 420
caatctgtcc agaatcacia aaatgtgagt gccattacat tg 462

<210> 20489
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 20489

agcttttagt ttcaagattc aagaatcaag attcaagaat ccagattcaa gaataatcca 60
 aagattccag actcaagaat tcagaatcac gagaagactc aatcaagata agtattaaaa 120
 aatttttccc aaacattgag tagcccaaga agttttcaca aaatcattac caaagagtgt 180
 tactctttgg taatcgatta ccagaagata gttattgatt accagtgggt taaaatgtta 240
 agatttcaaa ttcaagagtt acaacttggt tttaaacat tttacttggg ggtatcgatt 300
 acacaatcct tataatcaat taccagtggg tctaaatggg ttaattctca aaattcaaaa 360
 tgaagagtca catatgttga tgtgtaatcg attacacctt aatg 404

<210> 20490
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20490

ggcttctaca attntgagat tngggactca aatgaccaga ttgttaaaaa acgagggact 60
 caattggtga actaaatggg aggggggctg atttagtgag ttggaataaa taaggggact 120
 atttttgtaa ttaaaccctt aattttcata tgtttattta ttctcaattt agttatattg 180
 ttaattttca gtgttatgat gttatttgcc aaaaaattaa cttaataaaa tataataaat 240
 aaattaatag tgattacaaa taaaataaaa tattttttat ttttataactt gataattatt 300
 tttcatttaa ttgtcatcat cataaatcat tgttatcact ataaacaatg tcatttatta 360
 tcattacgct aataatgtat atttagtata acatctaatt aaaaattcaa aagtgccttc 420
 agtgattaaa atgacaatat tgtgtaagtc cat 453

<210> 20491
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 20491

agcttggtttt attaactttc tttcgatgat atattcctgt ataagtttaa gtctgggggtg 60
cttttgcttc tctggttcat taattctcat caatatatta gaaagttacc taagaaatgg 120
acaaattcac atgtaatctg ttgatttaca cactttccgc ccgctaaaaa gtaataactc 180
ggttggtttt gatatacaag aaaaacattg aacatcgatg aatatattaa ttctttatct 240
tcaataaaac atcttcaa at 260

<210> 20492
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20492

cttgaggggtg cgtagcccac catcttttca tagtagagta tcgattatgt gtctaccatc 60
acgattatcg tctgcctttc catcattggg ggtaccactt gggccgccag atccctccac 120
cttttgggcg tgttctttga aagatccgtc cccctttttg caaatgttct gtagttgcat 180
cctatccaga accatatcaa aattgtacta atactgccta acaaaggcaa ccattaagtc 240
cttccaagaa tggactcggg aaggttccaa gttagtgtac caggtaacag ctaccccagt 300
aagactttca tggaaggaat gtatcaacaa ttcctcatct tttgcgtatt ccctcatctt 360
ctgacaatac atcttttagat gggtcttggg acaagtagtc cncttgtact tgtcanagtc 420
cagcaccttg aacttgggac gggtgatgat a 451

<210> 20493
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20493

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcactatt aaaggacctc attgaagctc anagatccaa cctccataga aacccacaa 180
gcaagcttcc atcataacca ctctatttcc cctaccaggg atatccaact tggtcactgc 240
actcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300

ctcatctcaa tgtcattatc atcatcaaca tgateccatc tcaatgtcat tctcaacatc 360
 aacatcatct catctcaatg acattatcaa catcaacatc atctgatttc aatgacg 417

<210> 20494
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20494

gattcacatt ctcccccttt gtcaagcaaa ttctttttga tatctatcaa acctgcatga 60
 tttacacaat tcccagtaat ttatacaagt ttgtatgttc aagctgtcag caccagcgat 120
 ttcaacctag aaatcaagaa tagtgtttat gttgcttaag gcttggatag ttacaatttg 180
 tgtttgctta tgctcaatga tcttgaataa caaaattcaa gagaacttaa gacttatttt 240
 gattcacaaa tccagccaca actcagcacc acaactcaac ttcacatag gaatcatgta 300
 ggaaacttag aaaacaaaaa aaagagttca acaacaagac tacttctagg aattgattta 360
 gaacatgtta tgaactaaat aacatgcatg aattagactc anaattctaa agataggcta 420
 agaatgacan gaatacatga acaaatgtat cta 453

<210> 20495
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20495

agcttataga ggaagcttca atggaggaag agaatanggg aaaaagagag gggggcacga 60
 aattgaagga gaaaaagagg gagagaagtt aaactttgaa gtgtgtctca caagtttcac 120
 attcatcaat gttgtgacaa gtgttacaca tgtttctatt tatagcctag gtcattaaat 180
 aaatgtaaat ttcatttaca tttcatgtga atctaagagg aatattcaa gaatatgcca 240
 aagacgtctt agcatattcc aagaatatgc canaggcatc ttagcatatt ccttttagat 300
 gccacaagaa tggaaggaat gtgtgattct agcacatgan aaaggaatat gccacaagaa 360
 tat 363

<210> 20496

<211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20496

tctagattag tgtaccagat gaccgctgcc ccagccaagc tatcttgaaa gaaatgcatc 60
 aacaacttct tgtccctaga gtacacaccc atcttgcgac aatacatttt gagatgattc 120
 ttaggacaag ttgtcccttt gtacctatca aaatcaggta tcttgaactt cggagggatg 180
 acgacgtccg gcactaagca aaggctcggtc atgtccgcga acggataatc gccgaagcct 240
 tcaacaactc tcaatctctc ttcaataaga tcaagtttcc cctttccttc tactgccagg 300
 ggtggcccta ttggctgtgt tgggtggttt cgaggttctc ctgtgatgtt gggctgaggt 360
 agtgcggttg gtgttggtcc ctcggcgggg aacggngagt aggaatcaat gtctccctga 420
 gcatgcactc gacgatcctc gtggacc 447

<210> 20497
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 20497

agctttctact tatgtggcaa ggcggtcttc cttcaccttc ttgtctccaa cgcgaacttt 60
 gaccatttgt cttccttccc gcgatgcttc ttttcatgtc tgcctgagtg ggcttatagc 120
 ctaaaccata cttcccacga ttaccttgag tatttatcag tctagttatg ccgccggtgt 180
 tttttcctaa acccatcccg ggctcataac cgttccccaata cataactcgg gccatcatta 240
 ccgctgcate ggacagacta agctgcccga aaaggaggtc cacggaggaa atgctgacca 300
 cctcaaaaga ctggagaagc agttctaacy attcttct 338

<210> 20498
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20498

tggatcattg agctagtnta tgccattggc tctcgtcaat tggttgatgg atatacaaag 60

tattctttcc atgcttgtca ttgagagatc gtgaggggat ccaatgatgt aacattgtga 120
 ttttcttaat gtgtagttag gtgattntaa ttagattgca agagaaaata aatttaattt 180
 tcatgtttta aaaaatataa taccttgtgt tgtttaagtg ttgtgggtta aattgttttg 240
 ggcttgaaac atggtttttag agggctttta tattgtaatg tttgataaaa aaaatggtaa 300
 acaatggaga catgagcaat gtaattcttg tactttaccc aaaaaaagga tcacagttta 360
 gtgattttgt gtgatgagaa tctctccctt tttcattant accttcttnt ctcttccctt 420
 gcttttcta 429

<210> 20499
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20499

ggcgaatcag ctcgaccggt atccttaagt cacctgctgt tgcaaacttt ctgtcctata 60
 tttgatattc cataagggtc cagatattcc attcatacat ctcttaaagg acgggtgtga 120
 ttaacttatt atacgtttta aatttactta ttaaatagata agtctttaat aattaagagg 180
 gatttttggt caaaataatt tggcagaaaag ccgtttataa agtgaaggat atgatctatc 240
 tacctgttca ctgggatgtg atttgaatta acatagttca attaataaaa aattaaccgg 300
 ggattgggtg attaaattat tataatccga ctaattaact aatttttctg ggttgttgat 360
 ccgttttgcg attttaaatt tgagagaata tt 392

<210> 20500
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20500

tataagcttc attatctggg gtggttagatt tcccacattt tccagcactc tccacccttg 60
 caatagtact cacaagcacc acanacccaa caaggcatag caacttcaca caataagtac 120
 aaccctccat tattttctcaa tattatgctt atgtctctct attagtgaat tgtttctctg 180
 ttgatttcac aatgcaataa cccctttggc tctcatgggg ttttatagcc taacatgctc 240
 caaaaaagtg cttggccttg tcaccctctg attaatggag cttgcactag gacaaagggt 300

gagttttatt attgcaccac ttatgaacat anagcaggtg tatacacana ttgctccac 360
 ttatttgtcc aatcaatgta ggtgtgtctt tgccaacaca attctttttg ttttcttact 420
 tccaaatgta gcattattca cag 443

<210> 20501
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20501

tagctttcgt ncctgagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaatg 60
 agagagcaag atatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccatagcaa caaggggggtt gaagagtatt tcaaggaaat ggatgtgctc atgattcacg 240
 ctaatattga agaagatgat gaggtaacta tggctcgcat tcttaatggc ttgactaatg 300
 atatccatga tattgttgag ctgcangagt ttgttgaaat ggatgatttg cttcacaaga 360
 tgtccgatcc actagcataa tataacgag 389

<210> 20502
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20502

ntcatagttc aattccgagc gtctcaatat attatgcgct tgaatcggac ctccgagtta 60
 caagttatga ccatttgaat ntctcgagag ctccgtatt tcaatnttga gcgtctctat 120
 atgtgatgtg cctaaatcgg acatccgagt taaaagttat gtccatttga atttctcgag 180
 agcttccggt gttcaatttc gagcgtctct atatgtgatg cgcctaaatc ggacatccaa 240
 gttaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt tcgagcgtct 300
 cgatatatta tgcgcctgaa tcggacctcc gattgaaaag ttatgagcat ttgagttgct 360
 caagagcctt catatggtca attctagcgt ctgatatat tatgcgcctg aatcggacc 419

<210> 20503
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20503

agcttctccc ccaattntct ataaataggg ggagaagtga agtgaaaaag ggttcagccc 60
 cttaggcact tctctctctt tcgaatntgc ttggaaaaat tgtttccgtg aagaaaatcc 120
 aagccgaggc gcttccgaaa cgtttccgta acgtttctgt gaggaatttc gcgaaggttt 180
 cgaccgttct tcgacgttct tcattcgttc ttcacgttc ttcgatcttc aacgggtaag 240
 tacctcgaac caagcttttc gattcattct atgtaccgtt ggtgggtccac attgtgtttc 300
 gtgtattttt attctcgttt catttacttt ttataccccc ctttgacgtg cttaagccca 360
 tttatttaag tcatttctcg ttaaccctaa aataaa 396

<210> 20504
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20504

tgtaggatta tggngtacct gtcatatgtg gtactatgtg gcgatcgggc gatggtgcaa 60
 gtcgactctc cacatccaca aatcacacat aaatccacca tccccagttg cccaccttca 120
 actgagctca cgtactccca cgtagccctt atcctcgttc ttctcaacac cgggtcccca 180
 tcaatccctc caagcttcca caacatccaa gcaattcaac atccaaacat catgcactat 240
 caaaaacaag aaaacagggc agaggcagaa aactctgccc aaaacacaaa ccaataccac 300
 agcttttcctt actcaaatac cccagtaaca ttctcttcgt tctaattcgt tcaccgttgg 360
 atcgactcta aaattttact ggagggtccct agtacataag tctacattnt gaccgttggg 420
 atctgctata aaacgtncag aaccaaatat gt 452

<210> 20505
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 20505

ctttagcttt tattaccctt gcatgaaatg cgtttttata atcttataca tgaacataag 60
 taatggtaaa tatatcaaca gtgtacaaca ttgatataatt gtcttctaaa aaattaatac 120
 aaatagtgcc aatccaaatt gttatgactt ttttctttga ttattaaatt cctattaata 180
 gtagtggttag ttcaattccc actgcctttt ttttaatggt actcttttaa aaccgcgttc 240
 ttgtcatttt cataagtttt taaacaaaga attgcatggt tctttcaata atgtaaatta 300
 gttttactca tttcgactc aattaattat tttttaccta ttttttattc 350

<210> 20506
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20506

tatgcacaga cagaatgata tgtagaagga ggtactaggt atcaaacaca cgggttccat 60
 gctcaactag cagaaaatgt ggagcaaaca gcaagcttgc ttttaagggtg gtgcacgtat 120
 gaagaatagt ggcgtgaaag ggagcaaacc tggattgtga aaatggaata caaattgcag 180
 aattgttaat gatttctaga atattccctt tacacaaaat gacaaattcc gttattaggg 240
 aactgggtata aataaaaagca tttgtaaacc attgaggggc atgaatgaat gaaatagcag 300
 atttcttccc ttagctttct tcttctcttc ttcttcttgg aggtgttgac cctcgaagtt 360
 cagctagctt ttcctgcac gtnacacata attacagtan aaatgaagag taatgcatca 420
 ttaaggattg a 431

<210> 20507
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20507

agcttangct attggaggga gaataaaaca atccaaaatc aatcgtagct ttcaagnac 60
 gcaaaattct ttttgcggt ttttagatgac gagaggctcag agcctccata aagcgacaca 120
 caatctccca ccgtattata gaatatcggg ccttgtattg gttagatacc ttaaactccc 180
 cacaagactc ttgaagatca tggagtctac cttctctcct tcatcagact ttgataactt 240

caagccacct tccatagggtg tgttcacggg attgcactca agcatattaa atgtcttcaa 300
cacttcttgt gtgtacct 318

<210> 20508
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20508

ntagcacaag cganacatca gttcttnttg gagaatatat taatgcacga gctngaatta 60
agaggagggtg ttgcaatata attcaacgct ctaaagtcc acgtattaag ctaggaataa 120
atcatcattt ggttgcttga actgtaagaa gatttgggtca agtctgttgc tagatttttag 180
ctatattgta cgtgaacatg tgcgtcagtt tgagtcagtt ttatgccact tccttaggtg 240
atgttagtcg tggaaagtgg agtcagttat caagttactt gagtctattt aagcattggt 300
atgtactgaa gtctattaga gagaagaacg ttgatttcct cattgatgtg gctctcaaga 360
ttgatattctt atccctctaa ttgtacatat aacagacagg ctaaaacata cgttttatgc 420
attgaaatgt aattaaa 437

<210> 20509
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20509

agcttttgtc cacaagaaaa ccacttgaat ccgttcaaag gttcaacgcc ttaaacgggtc 60
tttttacttt taaacgatta aaatgaacct ttagaagtct aaaatcaaac ttatgtgtaa 120
ttttctttca tcaaagaact atgtaggtct gagttttctca tcgcaattga ggatacatag 180
gagcaagagc cccgctattg tcgaccccca aaagataaaa aacataaaaa atggaaaata 240
aaagaaactt ggtgtcatga ttttgcacac ttgattaaac gctgntgtcc cttgtgacgg 300
acgcgtgggg tgctaatacc ttcccatgt ataaaaaact cttgaacctt tattttct 357

<210> 20510
<211> 440

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20510

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 aaattggatg agggaaagag tgggttttcga aatctgcact ttatgcagaa ttttgctgtt 120
 gaaatgtgca gcaaaatfff gtataagtgc agaaaaaagc ttgtgtatgg ctgggttgtaa 180
 aaagggtatt acatatgggg ttcttgaaat tttctaagag atcccaacgg tcaaaatgta 240
 gacttatgta ctagagactt ccagtaagat tttcgagtcg atccaacggg taacgaattc 300
 gaacgaagga aatgttactg gggatattgt atgtgaaaag ctgtgattnt gggttgtgtt 360
 ttgggcagag ttttctgcct ttgccctgtn ttgcttggtt ttgttagtcc atgatgattg 420
 gatgtggaat taatnggatg 440

<210> 20511
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20511

tgcagagctc aataattgat tggatagaga atcaaacttt tatttatctg ttagatgaca 60
 ttctgtttac tcatgatcaa attaatttaa ttgttgaaat attttataat ttacaacaat 120
 aagtatctta acattttcag acaccaaat tgaattata tattaagggt agttcaaaat 180
 tgtagaaaact tcagcaaat tttgaattaa tatttctcca tttcatgttt atccacatag 240
 tttctaacta ataataagct taataacata tgcataaatg ttgaacaatt aaaatgctaa 300
 aaataacatg atttatgttt ttaatatcaa tggctnggag ttcttgattt ctaacaacga 360
 atagagaata gcactacagc aagcacactg aaggaagagt attcataagg tgcaacatca 420
 gtataaaatg ggatagaagt gataaaccac catca 455

<210> 20512
 <211> 396
 <212> DNA
 <213> Glycine max
 <400> 20512

agcttattcc tctcttgatg tgtggattag tgttgagaaa acctttcgaa tcgtatatat 60
gccttggatg agtgtgtctc tcttgatgtg taggcacatg actacttaac tcccttcttt 120
tgtatgtagt catgaatgta gttgggttaag tttgtgattc cttaatacat ccttattgat 180
tgggttaattc ttactttctta tatgtacgtt atatacttgg tataagaacc ttataattct 240
atgtatgcta gtagtatagt gttctgcctt aattgcatag atattatggt tgttgtgatt 300
tccttgtttg agcgatgtta attccttatag ttcatgacat gtataagata gattcataag 360
aatactccgt gaccgacctt cagtctagta caccca 396

<210> 20513
<211> 448
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20513

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agattcctga tttttttatt ttattttatt ttggcgttcc attttacaag acttttcttt 120
ttcaattggc gtttataatt atacgacgag acaatagaga tgttgtgatc tgttggatat 180
atttgaaaa caaggagtgt ttattcataa acaacttacc taaatcaatc aagaaaaatt 240
gagtcggatt cgaattaagg tttgatgaga tcaaaactga accatagact cgatatatta 300
accgatgaac acgatcttcc ttttatgttg ataatgtgtt ggaacatcca tgagggtatac 360
aatgcctctn gaatttgtac cgtttgacac cctataagta atataaanatc tatatggggt 420
attacttggt atttgattaa tataaaat 448

<210> 20514
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20514

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gtcaataaag cattcaatgc atcatttaat ctccctcgcc aactgggtcat ttggacaaga 120
ttaagcatct ttcttttctc tctttcttgt acaccaaatc ttgtggcaga tcgaggacat 180

```
<223>      unsure at all n locations
<400>      20515
```

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<210>      20516
<211>      408
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      20516
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gaagttatga gacgaagatg atcaannatt atcatttgat gaaatttt

408

<210> 20517
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20517

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taggtacgtt ttggcaaagc ttggtgttc tattgaatac ttangtcaac ttggggaact 120
catggttaac ccaaggacct tttttggttt ctactgcaag gaatggggaa cttgtaatga 180
cctgaggtac gtttgttgtc gtggtcactg gtgctgaaag gctctcattn tgattgaggc 240
aagtcgtgct cactttgtag ttctttgaat gcttaatgtc tgttgtanaa ctanggtagc 300
atagtgtagt gtagttagt gttcttcatt ntgtttgagg tagcgtagtt aacttgtatg 360
ttcattctgt ntcattgaca ttgttacaaa cctgcattta cggannaata gttaacttgt 420
atgaactntc ttctttntct atacatgtct 450

<210> 20518
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20518

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cgaggattaa gagggttgca gagcgcgctg atgagcgagc gcgtaagatg aagaagcatc 120
atggcgtaa gttcagttgg attttcaata aagaattgct tttgtgaaat ttcagttaag 180
acttaagaga taagagatag aggtcaacgt gagtcaacag gtttttggct ttgtgactat 240
tttgagtctt gtttgtacgt ggcattntga gtacgaataa tgaacaatnt aacatggatt 300
gcgtgtaatg gacattgttg gatccatggt tgttgttctg gtggatacaa aaccagtagg 360
aactttttgt tgaacggt 378

<210> 20519
<211> 443

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20519

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 cccgacgaag aactgacan aaacttatct tctccttctt ggacaaagta tggcatgctg 120
 ggggcaagta aattttcttc ccacagacc ttggatgcaa ctgtgatcgt ataccatat 180
 cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240
 tcccaatcac actgtcacia acatttttct ccacatgcat aacatcaata caatgtctaa 300
 cgtcaatatc acaccagtac ggaagatcaa agaaaatgga tcttttcttc atatgcaact 360
 ctgactttta tcttctttt gggcttccc aaatatagta ttcattgtgtt gaacccgctc 420
 atataccttc tcaccagtc atg 443

<210> 20520
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20520

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 atatattccc tttcaaaaaa ccagcaatcc aacaacagtg acagagagtt atttcacccc 120
 tatgccaccc ctaattctcat cacctccaat aactcagatg acacatatat cacatccatc 180
 acagacacac cacaacatac tccttaacct gctcagttag atcctactac aaccatagaa 240
 cctgatattc ctattgaaga acccttacia aggtctacia gagttcanac actccaagat 300
 atctcactga ttatcactgc tacaatgtga ccaacacana taaagtcacc taccctatac 360
 aacatcattt agacta 376

<210> 20521
 <211> 451
 <212> DNA
 <213> Glycine max
 <400> 20521

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cggttttccg gaagttgtct gtgagtactt ccggaagaca caaattattc ttccggaaga 120
 agattcttcc ggaaactttc cgaaaaaatt atttccggaa cttttctggg agaaccttct 180
 tccggaagaa taattgctga agggcagttt cgccacttca ctgtttgctg ggtgccccag 240
 caataatgct ggggtgcacgt agcaactccc tactttgttc tgtcaattgg taatacattc 300
 tctattcttt tctgtttctca caacgggtcg tggacttccct ctgctggctg ttgtgtgtcc 360
 taagtcgta ttctgtttta cagcctaccc ttttggttca tcctattcct tgggttttgt 420
 tctaataagg ttttctttgg gttaatacaa t 451

<210> 20522
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20522

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 tattaccggg attatcatat acaatctcaa aggttttttg ttggacgttc ccaaatatgg 120
 ttatttgact atcatcttta ttgtgaataa atgccaaaca agactgttta tcatcgaact 180
 catagagtac cctggcgagg tgtaagtcca ctgtgacgcc aggaaagacg aatgacattt 240
 caggaatngg ataatgatat ccagtaagat cataacacgt gtcaaataca ttgtgcgagg 300
 nggcagtggg atagttggac aaacgctgct gaaatactga acgga 345

<210> 20523
 <211> 342
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20523

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 gcagcagatt gcttgggtgtg gaatggatgc tgtgctgctg tactgggatg atatgctttt 120
 aatgatgagt cctgagggag agccagttca ctaccttttt gatgaaccaa taattcttat 180
 acctgagtgt gatggagtaa ggatattgtc caatactaca atggaatttc tacagcgggt 240
 gcctgattcc accgtttcaa tcttcacaat tggaagtaca tcacctgctg ctttactata 300

tgatgccttg gatcattntg atagacgaag tgccaaggta ga

342

<210> 20524
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20524

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cactcaacgc ttggcccctc taccactata gattgtcttt atttttcata agtgtgactc 120
ttgatctagt ttcaatttct ccatgattaa aggcatttct ttatgttatt gttgtttctt 180
tcattttctt tgttgatagg cttcaaaaag gaacacaatg acctagtgtc ttgaccaggt 240
tgatcactgg tcagattttt aaaactatgg ttttaggttt tggtttgga taaaaggaga 300
aaattttctc tattggatca tactcaaggg tcactaaaga gttcacagga aagtctttcc 360
atcacaaaac aaggctataa catgcatatn ttaacctatt taatttatta agacccaatg 420
taaaactcat acccatgt gctataatac ta 452

<210> 20525
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20525

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ggcgggctgc agcaccggct ccgcttcct aactgtactg gaggcggtg cggtggctnt 120
atcctctatg gttctctgga gttttaacat gacctccgag atggaagcca tttgatcttt 180
caaggccgat agatcggcct tcctctgttc ctgcaagccc tcttcattat ccatttttct 240
ggatcgagtg ttataggggt gccttgggtg tttcttagtt atgatgaaac tcctaaagaa 300
ataaacaacg gtgagtatgc caccaaaaca tgagtatgca aatggatgat cggagcactt 360
ggatccaccc caagattntt agataacgta atgagt 396

<210> 20526
<211> 434

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20526

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 tcatgaagca gaaacctagc aaaactaccc atcatatctc ccaaaaccca ataccacga 120
 aaatcaagtg agaaagaagt ctacccaaac ctgaaatttc gaggtccac acatagagat 180
 gcgcttcattg actccgaaaa tgcctttctt tcgcgatttg gagcagaaat gggcaccaaa 240
 ggttggagct ttaatggagt ttcaatggag gatgaagaag aagacaatgg caacgtgaga 300
 gagagagaaa agagctttct gaaattttct ttggctgagt gaggagagag aaaacagctc 360
 tctggttaaa aagaanagct ttttctcttt tctattattn taatttaacg tatgccacat 420
 gtctccattt gagt 434

<210> 20527
 <211> 300
 <212> DNA
 <213> Glycine max
 <400> 20527

agctttgttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgatcaa 60
 cgtcgaagaa cgggtgaaat ctttgcgaca tttctcacgg aaaacgttac ggatacgttt 120
 cggaagcgcc tcggcttaga gtttcttcac ggaaacaatt tttccaagca cattcgatag 180
 agaaagaagt gcctaatttg ctgactcctt ctttcttgcc ttctcccct atttatagca 240
 caatagggga ggtggttgcc tgccagctcg ccagggcgag ctcagctcgc ccagggcgagc 300

<210> 20528
 <211> 296
 <212> DNA
 <213> Glycine max
 <400> 20528

tcattgatgaa tcaagattga ttcaaagagt tttgatgatt tcaaagatga tgacaaagag 60
 ctcaatagtc aagagcactt catgataaaa aagatgatga tctcaagaat caaaaaatga 120
 gttcacgatt gaatcaagaa cacttcaagg ttcaaatgga aatttgattt ccagaatcaa 180

gaattaagtt tcaagattca agttccaaga atcaatatca agattcaaga atcaagagaa 240
gacttaatca agatacgtat taaatagctt cttcaaaaac tgagtagcac atgaat 296

<210> 20529
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20529

agcttcttat ccaaagctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcactatt aaaggacctc attgaagctc anagatccaa cctccataga aacccacaa 180
gcaagctttc atcataacca ctctatttcc cctaccagag atatccaact tggtcactgc 240
acttcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300
ctcatctcaa tgtcattatc atcatcaaca tgatcccatc tcaatgtcat tctcaacatc 360
aacatcatct catctcaatg acattatcaa catcaacat 399

<210> 20530
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20530

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catgattttac acaattccca gtaatttata caagtttgta tgttcaagct gtcagcacca 120
gcgaattcaa cctagaaatc aagaatagtg gttatgttgc ttaaggcttg gatagttaca 180
atttgtgttt gcttatgctc aatgatcttg aataacaaaa ttcaagagaa cttaagactt 240
attntgattc acaaateccag ccacaactca gcaccacaac tcaacttcat cataggaatc 300
atgtaggaaa cttagaatac aaaaaaaga gttcaacaac aagactactt ctaggaatcg 360
atttagaaca tgtaa 375

<210> 20531
<211> 410
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 20531

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 ttattgctat cattntcctt tccatcattg ggggcactac ttgagatacc agaacccttc 120
 acctttgggc atatactttg aaagattcat gctctctctt acacatgttc tatagctnca 180
 ttctatccaa aaccatatca gaattgtact aatattgcct atcgaaggca accataaggt 240
 cttccagga atggaccccg gaagattcca gaataatata ccatgtgatg gctgccaat 300
 aagactttcc tacaagatat gcatcaacaa ttttcatctt ttgcgtatgc ccccattttc 360
 ctacaatata tctatacgtg attcttgagg ccagaatccc tttgtactta 410

<210> 20532
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 20532
 tcagtgtcac aagtttccga ccacgaccat ggtggagttc aacacaattg tagtgtgttt 60
 tctggctgat atcttttagga agctataaat aggggttggt ttctgtatct ttgaaatctt 120
 ttacctaatt acgaatttaa gagttttgaa gcgtggatac caccatgagg atgaattatg 180
 gtcatcattc ctaccttgcc ggtatgtcta tgctaatttc atatatgttt ttgagttgtg 240
 ctttgatcat gagcgaccag tcaccatagt ccaaggggta tgatgtaact atccaatggg 300
 atccctttct ctgttcttaa tgaaattcct caatctttta tgtaaactaa ttctcttctt 360
 tattcttatt gtttaattgc gaattagtca atcctaagct taattgaatg tattgtggtg 420
 atgatcttgt atgtcgcgta gacctatgta gagaatgt 458

<210> 20533
 <211> 279
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20533

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ttccactggg aaattggcga gtggaggaac gccccgcac ttacgcaacg agcataatgt 120
 aaacctttac gagtttaaaa gctctatagt tgggcctagg ctttagaggt nttccttttg 180
 taaggctttg tgtcttttgt ctttgaattt ataatacaaa gatctntctt catctgttcc 240
 tggctcttac ccattctcat tcatttgcat gggtacttc 279

<210> 20534
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20534

tctanactnt gtacaagaat gaagctctga taccacttgt tagtctagtg gcctcagata 60
 tcttaagaag ggggggttga attaagatat tccaaacttt tctcctaatt aaaaatctat 120
 cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaatt attaatcaa 180
 atgaagcaac ttgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240
 aaaatgcaaa ctcaagtttta tactgggttcg gccacaccct tgtgcctacg tccagtcccc 300
 aagcaacccg cttgagagtt ccactaactt gtaaattcct ttacaagtt ctaaacacac 360
 aangacaacc cttcctttgt gtttagagat tctntacaac aagagactca cagtctctta 420
 atccccttaga gaatg 435

<210> 20535
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20535

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 agcgtaattc cttacgacca taactaaggt cgataaagct aagcgccaat catggcagct 120
 taacgaaatt cattgcggaa atatcagcgc taaagagaga acctctcact aagcgcatgc 180
 tcctctgtat ttaagatgca tcaattaagc taagctggcc aaaaccaggc ttagcgagag 240
 ttgcagcttt tctaattctgc aaaccttgct aagcggactt actcgcatgc taagccgagt 300
 atctattcaa aaaaataaaa ataaaatata tttgaattga aacgtcagct aagcgcatgt 360

tcgcta

366

<210> 20536
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20536

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acctaaatta gtgttaccta tgagctgcca tatttgatat tatcccagtt tccgaagctg 120
nttgttccat acctcctctg tgattgttca gcatgatgag aatttgcaag gcttgtctaa 180
tcatgaccac acttgaatgt aatctccatt atccttctaa tggcttttga caagtctaac 240
cgctgctgag ggttgctttc agtgcaagca gcaccaatgt ggaggaagtg ctccatctca 300
gcaagccaat tcctagagcc tgcaatttta ggatcaagca cttctgattc ctttccctca 360
gagattgcag ttttcaccca ttgcaccaca tcagccctac cttttccatt gctgacatac 420
tgagaaagga acctcgctgc aatatctcaa tatgac 456

<210> 20537
<211> 384
<212> DNA
<213> Glycine max

<400> 20537

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gtgtatatgt tctatgtgtc ctagtatacc aaacaacagg aatggtgaaa atggatataa 180
gagcattcct ctattgcata agagcattga ctgcagtcta tgacaatgac tttccctttg 240
aagctataag aatttgagc ttttcaagat caaagttggg tagtgcattg agcgcagcct 300
gtggcaatga atttcccttt caagaattca tgtgcaaata ttgataacac ataacctatg 360
cacctacca tttagttaca atga 384

<210> 20538
<211> 390
<212> DNA
<213> Glycine max

<400> 20538

gttactccca tctctgaaag tagcagagag gaggagccac aagaagacgt tcatggactt 60
cgccaaaaca acgatcacag cagagccctc catggagaaa ctgcaaagaa aagaaaggga 120
acgatatcca acctgattct gaaacagagg aagagcgcgt gagagggaga agtagtaagc 180
ggagaaaacc acgcgtcagt gggaaacagg aagagttgga cttctcatcg actaaatata 240
tataagaaag acgaaacaca gtctctacct aacaaaaatc aaggaagcag ccaagaaacg 300
acggcactcc aaagatagaa atcagaacca taaagaaaag ctggccatgt cacggaccga 360
actataggaa tacctgcaaa tggccaacc 390

<210> 20539

<211> 427

<212> DNA

<213> Glycine max

<400> 20539

ttgcggtattt ggacttcgcc ggcagaagga tcaattcgtt cttaaaagag gcaaatttaa 60
tgatggcact tgtacgaatg ataaaactgg tgcatatgaa gagggtgaaa ataaaggaga 120
aaccatgct gcgactgtca ttctacatg gccaaacttc ccaccaacc aacaatgtca 180
ttactcagcc aataacaaac cttctcctta cccaccacc agttatccat aaaggccatc 240
cctaaatcaa ccacaaagcc tgtctaccgc acttccaatg acgaacacca ccgttagcaa 300
aaccaaaaac accaaccaag aatgaattt tgcagcgaga aagcctgtat aattcacccc 360
aattacagtg acctatgctg acttgctccc atatctactt gataattcaa tgggagccat 420
aaccta 427

<210> 20540

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20540

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gccgctcgga tcttgagat cctatccagc agttctgcaa gcttggtggc ttttacaagc 120

tggactcaat ctctgtatcgt tgatgtcatt gggagtgtcc tgtgaactgg attcctacta 180
ccacccgcat aaccgtgata taaaatcaca aggaggagtc gattcctact cccgtgtcaa 240
accactggag aaatgcactt actatgtgat agttatcgca cggaccatcg ggattgcatg 300
ctgggtgttt ctctctacca ttctcttgat gggctatatg ggtccctgca actcactgtt 360
gcacttgggg atagagccag tcttgcccta cttgcaccga tgacacttat tatatgcat 420
gacgcgatct tgccgagcat taccaatatt actctaact gtaaaagaca ttaagatccg 480
cgaagtaata aatacattn 499

<210> 20541
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20541

tcanatgtca atagcaaagt actgattttg tcaaattagt tatttatatc tgccgcatga 60
gaacaattaa taatttccat tntttttgtc tctagtata ctgattactt actgtgtgta 120
atataaatta tgtaaaatta agtctatgta aaattacgat attattaata tttttaggac 180
attaattaca aaattaaaaa aatatattta ttatgaaaat tataggaaag tataaaaaag 240
ttataaacag cataatttat gcattttaat aaaaatattt atttttttaa ttctgtaacc 300
aatgtccttg aaggaattga ttagtatcgg cttaaaatca agttagtaaa cactcatcta 360
aacacattat caacttttct tgatgataaa agtctatttt ggatgtgaat 410

<210> 20542
<211> 369
<212> DNA
<213> Glycine max

<400> 20542

tgttgcaagc ttgttattgg ttactctaaa ttatcatttc attaccgtac ataaagtaaa 60
catatttaaat aaaaacgtgt taaataaaat ctcatatat tgtaagcgtt tgagacaacc 120
agtagttgca atatttaaaa ggatattgaa tcttatttga tattagttaa ataaataagc 180
tttacaatga gcttattaag ttaacattca tcatacataa atgttattag aatacttaaa 240
aattataaaa agtgtattaa tcagatttat aagattaatc aaacatgtgc cattttcaac 300

gcgagtgccta aaatatatga tggaaaatgg atcctcttca agtctccatg ttctacctct 360
gcaacagga 369

<210> 20543
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20543

ntctctctta tataatggaa ttgcaagac aatgactgct ttttcaaggt ntgaatagca 60
ttccgtggac aagtaaggat aaaaatttaa atcatcanat tcaacattgc ttgatagagg 120
tttgtcttga agtttatttt taaccgcacg gttctcatgc aaccccaaag tttctcctt 180
cgatccaaca tggaaagctt tcggagtttt ggaaccatct agttcactca aagactnttt 240
ttcgcacgaa acactctgcc ttgatttgtt aaaatcatac aacacaaatt ctgtcaccat 300
agagttgtca aattctttgt cttctagttc agaacataaa ttacaggata ctagcatctg 360
tgctactatt gagggatctt tatcaaaatc atgggatccc aaccattga cattgctctt 420
ct 422

<210> 20544
<211> 338
<212> DNA
<213> Glycine max

<400> 20544

ggcaattcac tcgtcccggg atctctaagc acctgcatgc tgcacttttc aatatgatga 60
ggagttagta ttgcaacata aaaatgaacg attaaataga tatagtagaa aacctcaagt 120
cacatgtatg gtcataggag cataatatc tagagagcaa actatttttg gaaacaaaac 180
taacctaaag ttatttccac ataaccgaaa taaatggagg attgtgaacc agaaaaacat 240
attggaaaat tggttacttg gtaaaccac cttatataca agcctaattg atgctgatac 300
cactattgac catactatct gccatgttca atatattg 338

<210> 20545
<211> 399
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20545

ccctcgaaga ggatgctnta atggaggaaa agaaagagag aagtgggagc acgaaattga 60
aggaataaaa gagggagaga agtggaactt tgaagtgtgt ctcataagac tttcattcat 120
caaagttaca acaagtgtta cacatgcttc tatttataga ctacgtagct tccttgagaa 180
gctntcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagctaga 240
gcttagctac atacacccat ctaaaaacta agctcacctc cttgagaagc ttccttgaga 300
agctagagct tagctacaca cacccatcta aaaactaagc tcacctcctt gacaaaatac 360
atgaaaatac gaaaaaaagt ccctactaca tagactact 399

<210> 20546

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20546

agcttctcct tccttttctt ataaataggg gaaggaggga agaacaaaaa tgttcaaccc 60
tcctagtatc tgagattcac ttaaaattag tgagaaaaat tgtttccgtg aagaaaatcc 120
aagccgaggc acttccgtaa cgcttctgtg acgtttccgt ggggtgatttt gcaaagattt 180
tcaaccgttc ttcgtcgttc ttcattcggt ctttgcgtt cttcgggtgt caaccggtaa 240
gttctgaaa tcgaactttt caattcattc tatgtacct tagtggtcct cattgggtttc 300
gtgtgctttt tatttcattt catttacttt ccatacgccc ttttgacgtg ctttagtcat 360
ttatttaagt cattttctcg cctaataaca aataaagtaa att 403

<210> 20547

<211> 383

<212> DNA

<213> Glycine max

<400> 20547

acatacacag ccacacaccc acacacacac agagagaaac acacacacac actgaaacac 60
acacgcacac acagaaacac acacgcacac acagacacag gcacagaccc acacacacac 120

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<400> 20548

<210>	20549
<211>	411
<212>	DNA
<213>	Glycine max

ntacttctac aattgtaagt cacttgcaat taatatcttt aattatntat gtttattggg	60
tgggttgactg aacaaataaa tgtgttctgt ataggattca ttggaagagc aagcgtcaca	120
gggttccttt gtcccccatg gacgtcagga tatctggact gctgccattg ggcgaccaga	180
acaccctggt cgtgtgcgta ctgttgacc cagtgtgaca atcaagtaat actttggaat	240
agctccacga acctcctaaa cttcttcctt tatggctccc aaagaactag agcagttgac	300
tcaacagatc agggactagt tggaggagtt gatcacagan naagtgactc aacagctgat	360
gttatccttc agtcagatgc agtcccagct tcagtcatag atgcaatcac a	411

<210> 20550
 <211> 394
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20550

agcttttttac aacttggtgt aatcaattac cacaactctg taatcgatta aaacaaagag 60
 ttgttgccctc tgaagaaatt nttctaactt agaaactttt tcttcacaca aaccatgatg 120
 atgcatgatg tctgatgcaa tgcaaatac aaatgtacta agatgtcaca accaagttaa 180
 caaccaatac aaatgccact caagggagtt gggcatgtaa aagccaaaac ttcttcaaaa 240
 cttgttcaaaa cttttccttg agcttcagct ntagccttta agttgtcacc atgttgctcc 300
 ccttatctct aacaatagtt tgtcataatt aaaaccaacg atgtggattt cataatgtta 360
 acccacaat ttagagaact agagtagtag tctc 394

<210> 20551
 <211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20551

ttctaaagtt ntatggtttt ctaaacttg aaaattgtgc tattcatctt ttcattcact 60
 tctccctttg ccaaaaagaa ttcgccaagg actaaccacc tgaattcttt ttgtgtctct 120
 cttctccctt ttccaaaaaa acaaaggact aactgcctga attcttttgt gtctcccttc 180
 ttcttgtca aagaattcaa aatgacacag tctgagaatt cttttgattc ttccctttcc 240
 catatacaaa agtgttcaaa ggactaaccg cctgagaatt cttntgtatc cccattcaca 300
 aagtatcaaa ggtttaaccg cctgagatct ttgtcttaac acattgaagg gtacatcctt 360
 tgttgtacaa agagagggtg catctactt 389

<210> 20552
 <211> 350
 <212> DNA
 <213> Glycine max

 <400> 20552

agctttcttca tcagaccact tccagtgtgc tggaactact tcacatggac ttgatggggc 60
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgctgtg gatgatttct 120
 ccagatttac ctgggtcaac tttatcagag aaaaatcaga cacctttgaa gtattcaagg 180
 agttgagtct aagacttcta agagaaaaag actgtgtcct caagagaatc aggagtgacc 240
 atggcagata gtttgaaaac agcaggttta ctgaattctg cacatctgaa ggcattcactc 300
 atgagttctc tgcagccatt acaccacaac agaatggcat agttgagagg 350

<210> 20553
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20553

tggactatat cccaccatat gataccttgt gcatgtaatc tatgattcgc tatctatccg 60
 tacaataatg tcgttcacac aaatatggga gctatggaaa gatattcact tagtatatga 120
 caaacaatta atccatttat tttgaaactt ccacggcacc aggagatgag atttgaaaat 180
 ttgtgccaat gacaatgagt cacctttcaa ccataattga tccggacctt tgccttgtgc 240
 tatttcaata gctaaaaatc caacttgcaa ctcagcatga aaggcaattg aaatatccaa 300
 agagtgagag aaacaacca aaatagcacc cctagaatta cgaataattc cccactagc 360
 tgaaggcccc agacaancta ttgttgacc atcaatgttg cacttaatcc atcccatttg 420
 agtag 425

<210> 20554
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20554

agcttgtatg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccgcaaactg cgcataaacc caccattccc ttgtgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180
 ccccatcaat ccttccaagc ttccccaaca tccaggtaat tcaacatcca aatcatcaca 240

aactaacaaa ccaaggcaaa cagggcaaag gaagaaaact cttgccaaaa ctcaaaccaa 300
aatcatagct ttttctcact taaagacccc agtaacattt ctttcgttcc aatttcgtaa 360
cccgtggatc gactcanaaa gttactggaa gctctatata taacctaca 409

<210> 20555
<211> 441
<212> DNA
<213> Glycine max

<400> 20555

tgagaacata gtttcaaaac agtaacatct ccacgcttca taacatcagc acgataagcg 60
tagaaacttg gtgacaactt ttgcgataaa agccaaatac ttttactgtt tttttttctt 120
tttgctgttt gaatctgttg aaattttttc tatcaacagt attcaaaact tactcatgtc 180
tactgcaaaa aatgtttctc gcaagctgtt tgctcgaaaa ccccaaaaga ctggccgaaa 240
atgtgttgca agctcttaat gaaatggatc acataaccgt accaacacaa caaatcctc 300
tatcaacgca tcattttcca cagccactgg acaatgtcaa tattgtcatc ggtcataggg 360
aaggatgcgg acttcattga cgaagaaggc aacacgacgc ttgggagttc caccgcctcc 420
ggctcaacc c tgtggtgaaa c 441

<210> 20556
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20556

agcttatgga tggaatactt acttggttgg gatgaacaaa agcgcaaaac ggaatcaaaa 60
atgcgaaaaa ggatgaccct agggctgcaa attcgtcaat cccgtgggta tggcttttga 120
aagcggngaa aagaggtttt tgaatgtaaa aacgcccccc ctttcgtcat tnttataatt 180
tggtgcaggg gtggcttcgc ccagcgagcc cagctcgccc aggcgagcta acctgcactt 240
gnntgttntt gcttactcgt gttgttgatt tgggaggaaa ttaaccattt cccctccctt 300
ctcatgaaat aacatttcgc ctaacttgga cttactta 338

<210> 20557

<211> 434
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20557

aataactaagc ttctatccag gctcatcttg gtggtgaagc tccttcttcc attgtttatt 60
 ccctagtgga tggcacctcc tctcacctct tctcctttgt cttccgctgc atctccatgg 120
 tggaaaatca ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc 180
 cacaagcaag cttccattaa gtgataatca gagcacaaga gcttcaagta ggtgctcctt 240
 aaacctccat taatttttgg ctttaccttc tcttccattg ttgtttcttc attnttcttc 300
 catgtatctc ctcacatgtc ttgtgctaaa tgttgtaaac atgattctnt agagtttcca 360
 ccgattaaac ttgctataga agctagaatt gattntctat ggttcaaatt tcttgttctt 420
 gttcttgaac catg 434

<210> 20558
 <211> 358
 <212> DNA
 <213> Glycine max

 <400> 20558

agctttatgt tgctcattga ctccagattg ctacaaagaa ggacatagat ctgtatggtg 60
 atctgcagaa gaacatagac cacagactct tgccacaggt gcatatttct gattcatggc 120
 aagctgagtt actagggttaa ccaaggcatc aagtttttcc tcaagcttta tattctcagc 180
 agatgaagat gaatccatgg ccacctcatg gactcctcta aagacaatag catcatttct 240
 tgcactgaat tgtgcgagtt ggaaccatct tctcatcaaa ttcttacctc agcggagtcg 300
 tatcaccaaa gctccccatt gaagcatcat catactctct ccatgtacta agccctat 358

<210> 20559
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20559

ccacagcaac acanaatcta ggtgtccaaa tctcttcaat tcaatggctt ttctaggtgt 60

gagaggtgaa atntagaatg aggtaaatth gaagcanact ctcacctcac acaagtccat 120
 aacatcaatc taaacttgct caaactgaat ttacaccaa aattccacca aatcaaaatt 180
 tgactcttca acaccaatt ttgccctaga aatggctctt gggtcacttt gggtcatttgt 240
 ttttctctct agctcagcct aacctttctc acatgtccta gatgacattt caagctagta 300
 ttaactcact ttaacctcca ttaccacaa aattcagact tagccttcca actctcagag 360
 tctcacctg tctccactca taacatcaca ttctcactgt ctaaccctag gttagttcta 420
 cccttcatct ctaacgagtt tccatcagca at 452

<210> 20560
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20560

taggaccacg acacggcaga tcgcggggta ccttacttta tttctgcaaa tattgggttt 60
 gtaagatggt acattggatt atgatgcaca catgttctta tgtcatgtta acccagacca 120
 tgatgactat atgcagccag acattctaga gggtctagtg gcatttgatc cccctcgaca 180
 tgcagtggta agattatttg tgtatcta atgttcgatgaa ttgctatcta ttctaaatat 240
 tgtaataaat gtttcttatg actgtcacat gatgattaca aaggctatga ggcgatcgca 300
 gataggttgg agtgtgtgct caatcttatg atggctactg caaggacatg attacatgat 360
 atcttgcattg attgcctgat gatcgctagg 390

<210> 20561
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20561

agcttttagat caaggtaa at caaaatctag gtatccaaaa cccatcaatn tagtggatnt 60
 tcaagggtta agaagtga at atgagaattg gataattctg gggtaaaactc tcatttcaat 120
 caagtctata acattgattt agacttgctc aaactggtn taagggtgaaa accccagccc 180
 ttcaaaattg gccctcaac acccaattta cctagaaat ggctcttttc tttcacactt 240
 gtcattcctt tttctcattt gctctacca agctttccta caagtcctaa ttgacattct 300

aaactangat caactcactn tagactccaa tntccactaa ccccaaattt ggcttttcan 360
accctcaaaa tctcacactg ttccactcat atcactacca ttc 403

<210> 20562
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20562

agctttgaaa cactctntgc tactggtaat cgattacaat aaactggtaa ttgattacca 60
gagagtaaaaa actcttttggg aaaagggtnt gtgaaaaatt catgtgctac tcaatgtttt 120
gaaaaacttt tcagtactta tcttgattga gtcttttctt gattcttgaa tcttgagtct 180
taaactcttg tcttgattat tcttgattct tgattcttga aaacttgaaa cttgaaattt 240
ctcttgttct tgactcaatc ttgaaatcat tctcatgggc tttgtgttta caatgtttta 300
ttaactatat ttagttttta ttntgaatat gtgtgattaa ttggattntg tttgaattga 360
ttaatgcttg aattgcttat gttttattga tattagattc tgttaaaaaa atatcttat 420
ataaaaaatg ttttgacatg ttaatata 448

<210> 20563
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20563

agcttttatag cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60
ttaacctang gaattaaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaacccaa 120
agtcaccccc aacagccaac aagtcagcca ctcatgtgtc tcccaaaagg ctgatgccta 180
agttgccaat tgggccctta ttacaacttg aactaaacct aactaaagcc ctttttagttg 240
attaacccaa aacatatttt tggtcagcca actttacaag gattggggcca ttatttagac 300
aaactaaaca ctctaaaatt gaaacaaagt ggtgtcattt agtccttctc catttgggcc 360
atgatacaac tcacaacctt ggactttttc tcttgaactt 400

<210> 20564
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 20564

tctatataag ctgaaccatt ttatcaataa acacatgttg agttttattc agaaaattag 60
 aagttatcgc ttttatctta atgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
 accctggctg tatcaaaagg actttcacaa cctttggggg gtggccttgc tggaaaaagt 180
 gattcttttc ttctatcat ctccaccctt ggtctttcaa ccacaatttc agaaaatcca 240
 cctctgccaa aattatctcg tgacctaaact ccatttcaac actcaa 286

<210> 20565
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 20565

agcttgtaca ataatcgggtg agagtgtgat cttaaactat gagtgaacga ctagctttga 60
 gtaatagtct ttgcatcaat ctctgaattt tagaatgaaa tgtatgaatg aggacatgat 120
 gaaggccatg atttgtgtata tacaagtcaa ttgacccaaa agcttacctt gaattataat 180
 tgtatccttt gcaccctttg tgagctaaat tacattttca aaattgaacc ctgaacttga 240
 atgaatatct ccagatacct tgtttagatt ctacgagagc agatagttca aggaaaaata 300
 ccc 303

<210> 20566
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20566

ntgtgtaatt gattacactg atttggtaat tgatttccat tgattgtttc tgaataaatc 60
 aaaagatgta actcttcaaa tgggttttgg ctttttcaaa ttgggtttta gtttttctaa 120
 aagtcataac tcttctaaat gggtctcttg accaaacatg aagagtctat aaaagcaagg 180
 ctttgtttgg catttttcaa tcaatcaatc aatctatcta tctatccaat ctttgaatct 240

ctttgaactt cttcttcttc ttcattgtgc caaaaacttt ttccaaagtt ttctgggttt 300
 ctaaaccttg aaaacttgtc ctattcattg ttttcatcta ttcttccttt gccaaanaga 360
 attcgccaag gactaacgcg ctgaattttt ttgtgtctct ct 402

<210> 20567
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 20567

tgacaattcc tgtctcttct ttaaacttcc aaattccaaa tacgaatcta ttttatcatc 60
 tcataccaag cacgaagaat cactctccac ttatcttgct agactatcca cacgtgtggt 120
 aacatgtatc ctcaccatag atccacgttc tacacaagcc atgtgttgcg atgtatgtcc 180
 aaacacagca tgacgcatct ttcccttagt ccctaattta cagacactca cttttcttga 240
 ttaacaaaat actctacttt agtccggctt tattcaacat ttttctta 288

<210> 20568
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 20568

tgttgcacat agttatcaaa gtgcgtgatg agtgtttcat attgagcttg agttctgttg 60
 tagcctgcat tgccaatgtg atctgatttc ttcccgattt gattgtgaac aacgagtaat 120
 gcagatgcat ggccggcgag ttcggtcaaa tggagcacgt aaatgcatat tggagagttc 180
 tttgttgggt tagaggcgtc aaggagggtta atcattgggtg gcacatttct agggctgtgg 240
 atgcacacca tgactctgaa ctctgtgtct gtttgagaca tttgaatata ttttcttttg 300
 taagggatga tcccctttga tgttttagtat atagctgata tcccatgtac agttatacca 360
 tcattagaat gttataatca ccattga 387

<210> 20569
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20569

taagctttat aagtatttaa gatctgctgg aattcgtgat tctgcgaat tntattgtct 60
 ctcaaattga gcaaatecctt gttggactgt ntctgggaat atctctggga ttggtccaaa 120
 gaagtccac cattgcaaaa accaattgcg aaaattgtaa attgtattgg tcttgaaata 180
 tatcagccat gaatgcttga agcgggtatt ttggtgcaa aacaccttag tccaagcatc 240
 aacataatcc caataggtat aacctaccgg atcaaatgga actganaatc tctttccttt 300
 ngtcaagtcc gaaccacagt gtcttggttg aagaactttt agtatttgga ttgtggagtg 360
 ggt 363

<210> 20570
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20570

ntctattcta attntgaaat ccatgaaggt accctaattgt ctgaagttta tgggattaag 60
 atggtcattg accaatccct attttttgac ttaacaaaat tgcctagtga aggtgtacct 120
 tttgaggggtg cactgattga tgaatggaaa tttgatttct ctatgcatga tgtatgccaa 180
 ttggtttgca ccaaccaagc ggatatgacc ggaaggcttc ttgccggttc attggctttt 240
 gaaagtcgca tcttccatta tcttatagtt cgcattttgc ttcttagatc ttcaaaccctt 300
 gcctagggtt ctgaagaaga cctcattgtc atgtgggcct ttcataaagg tctacaaatt 360
 gattgggcac atcttgtttag atatcgcatg cataaggcat cgcgattgaa tgccccatta 420
 ccttatectc atct 434

<210> 20571
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20571

agcttcttcc tttgcacact cattttgctc caaatcgca aaggaagcca ttttcggagt 60
 cgtgaagcgc acctctacgt tgtgggactt caaatctcaa gtttgggtag acttctttct 120
 cacataattt cgtgggtatt ggggtgttgg gagatatgat gtgtagtttt actaggttta 180

tgccttatgg tagttatttg tgaaggaatt tgttgaaagc atgctaaact tgtcatgttt 240
 ggtatgagtc aagcttacct attctgtttt aagggtttat gatgatgctt tgtgatgttt 300
 gtgtgctaaa attgctgatg gaaaattgat agagatgaan ggtagagtta acctanggtt 360
 aaaaaagtga gaatgtagt atagtgtgg gaaaatgtga tgc 403

<210> 20572
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20572

tcaagaaaa gatggcctca gcaaattcct tatttccaga ttggtattct atcaatagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgtta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
 ggataaatgc actaactcat gagtatgaat tatttta 456

<210> 20573
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20573

agcttctctg tggcttcttt gagaagcttt ctcaagaggc ttctttgaga agctagatcc 60
 ttatctatcc acaccctct attaactaaa ttaacttct taaaaataat tacggatgaa 120
 aataacgcaa caaatattca aacatcaaac ataattacta atagtatata gatatatata 180
 tatcagggtg ttacaactct cccacccttt tagaaatttc gtctcgaaa tttaccttac 240
 tcaaacaagg atgggtgagc ttctcacatc tgactntcta attcccatgt ggcacttct 300
 cctgatgcac ctcccagat caccttgacc aacagaatct ctttccctct taagtgtttt 360

ggttgcctat cctcgatcct canatgcaat gtttcatatg tc

402

<210> 20574
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20574

caaagtaaatt caacattcaa acagcacata ttactacagc caagaaaaca gggcaaaggc 60
agaatactct gcccaaaaca ccaacaaaaa tcacagcttt tctcacttaa agaccccagt 120
aacaattcct tcgatccaat tcgttaaccg ttggatcgac tccaaaattt tactggaagt 180
ctatagtaca taagcctaca ttntgaccgt tgggatctac tagcaaakat ccagaactca 240
ttctgcacta ctctttccac agccaaccac acacaagcat ttttctgcac aaagccaaaa 300
tcctgctgca cctattntga cagcaaaatt ctgcataagt gcagatttcg aaaatcaccc 360
ttcctctcat ccaatcttgc ccaaatcaaa tcctacaagt cccaaatcat gtatcaatca 420
tg 422

<210> 20575
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20575

cttgcaagct ttttccaaca ttcattagtc caatacacac tcaacaaata gtcacatcc 60
atccataatt ccgatcattc atgctcaata tgatgcatgc acctgacctc aactctcata 120
tgcaatgtgg taccatcctc aaagaaatag cctaaacgtg tccacacgac actcacactt 180
atgaaaacta ggcagtaagt gtcgagggtca ccctgtcgt gcataggcaa cgtccctccc 240
ctacggggat cagcctgagt ctcaaggag ttccaaactg agtgacatgt ccctaatac 300
aagtattcct cctcatgaga actacaagta cttactgaca ccatttatac tatttccatg 360
tcataataag gatgaaacat gngcaccatc 390

<210> 20576
<211> 454

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20576

tcgaattaaa agaggcatta atcttgccat tcgcgatgct tctgccagcg atccttatgt 60
 cgttgtcaac atgggcgatc aggtttgaat cttgcaattt ctgagatcat ttttttttct 120
 tctttgaagg taaatctgat gaactggggt tgttaatttg tgttgagaga tggtcgcaaa 180
 taaaacaaat ggtttttcta atcccactat ttattgaaca atttctacga gattttttgt 240
 ggtataattg gttttgttaa tatatttctt ttggaaaaat atatttacac agacccttgt 300
 cactcaagtt tttgttcgc agggaaaaana ggatgtctgg ataaatatct ttattcgata 360
 tatataaact gacataatta taatcattag acaagtgaat aatgtaccag tgacagtatg 420
 tatgatataa attacttgct cccatgggtca ttgc 454

<210> 20577
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20577

agctttacta atggatagta agaaccataa atacctagcc ccaccagtag gttacaaaat 60
 atttataaag tataaaccgt acctatttaa agcctatgaa gagagagagt cacacagttt 120
 tcccatcaca aggtcatgtt aaaactcaac atgaaaagat acattcccta agttgatttg 180
 tgctctcttt taaactgact actaaattga gagggacttt taaattactg aactattctt 240
 caattaacat taataaagga tccttggttn cttttagca gggtcctctt gctgctccgg 300
 ttcttcaaca cctgacanaa gcagatttaa gcaagatgta ctttg 345

<210> 20578
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20578

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aacagattgt gaagacaaaa attgngcaag tttctgcaga tcgaatgtta tgagctgata 120
 ggaccatttt atctggctta gtgagagagg tcttatacat tataaccacaa ttntaaaaca 180
 ataatcacag gaaatagtaa gttataatat aaaaagaata attttttcag taacatctgg 240
 aaattntgtt ttggctagtt ggaattctga tggcagattg aaaacaaggc tctcttccaa 300
 ggtcttctga accttcattc caaatntttt aacctttatc attnntattt ttgttggtgc 360
 aatntgngga tttctctgtc aatccaagct atccatagtc tccaaactta ttgattagca 420
 gtgggtaaca cattggttct gtttctcaag tg 452

<210> 20579
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20579

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 ccatccatgt tggttaagcac cagggtcct cgggagaaag ccctcttcac aacaaaaggc 120
 ccttcgtagt tcggggccca tttccctcgg tggtccttga cagcatggga cattttcttt 180
 agcacaaggt ctccctcatg gaacttgccg aagcgtactt tcttgtcgaa cgcgctcttc 240
 attctttgct ggtacaagcg cccatgactc atggccgtta agcgcttacc ctcaatgagg 300
 gtgagctgat cgtagcgtgt ttgagccac tctgattcct ttaatccgga ttctgccaag 360
 atccttaatg acgggacttc tacctcanat ggtaacaccg cc 402

<210> 20580
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20580

tataatatat cgatacgctc gaaattaaac atcgattact ctcagganat tcaaatagtc 60
 ataacttttc acacggatgt ccggttcggg cgcataatat gtcgagaagc tcgaaattga 120
 acaacggaag atcttgagaa attcaaatag tcataacttt tcacacggat gtccgattca 180
 agcttataat atatcgatac gctcgaaatt aaacatcgga aactctcgcg aaattcaa 240

ggtcataact ttccacacgg atatccgatt cgggctcata atatgtccag aagctcgaaa 300
 ttgaactacg gaagttcttg agaaattcaa gtggctctta cttttcacac ggatgtccga 360
 ttcaggcaca tcacatatcg agacgtcaa 390

<210> 20581
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 20581

agcttgtgag ttacaaagtc ttgaataagc aattatgtga gtatttagta ttcttgaata 60
 agcaaattat gtgagtggc actctattct aatataaata ggggatcata ctcttgatt 120
 tgggtgcca aatgaaataa aatctttttc ttcttccaac acagtggat cagagcttga 180
 gttctagagt gttgagaaag aaacactttg tgagttgaga gagacatact ctgtgagttg 240
 agagatggca agcaatggct taagtatgtt tcaattccct cgtcttacca aagagaatta 300
 tgataattgg tgcgtcgca tgacagcctt gttaggttct caagatgcat gggagattgt 360
 agagaa 366

<210> 20582
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20582

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 ccttattata aacactagac cagaatccca tgctttcaat gtaggaccca agtctcatac 120
 ctagcaattg gatcctacaa gagttgcttg attcattatt gccgctattg tcaactgtaga 180
 agcactttct caccagtcac gccattacag tgttttctaaa ggtagccata taatgcttca 240
 ttttgctatt gatacttggt tttattatat tgactcatga tgtttacatt taaatgggtg 300
 ttttgctcct aatttagcat tattgttatg ataataacta tacttccctt gggtgtgtct 360
 ttatttcctt ccgtttttgc aaaaggaaat cagataagct tagttcaaca tcttagatga 420
 taaatatata agccaactac tttc 444

<210> 20583
 <211> 381
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20583

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 agttcgaata actagttacc tggctcactg agcaaacgct gcgtttcctg ttgaggtagg 120
 agaaaaaata gtgttcaaaa cattcagaaa gatcaaaatt aaaaaaaaaa caattgaaaa 180
 acccagaatc gcagttcatt tccaacgaag atcaaaagca aaagggtagc tgaatcccca 240
 aattgtaaca ccaaaagacg cttcaatttt tattttattt ttataagttt tccttcatgt 300
 ggcaactgaa tttaaacata gggcaatttg ngaattcgca cggaagaag cagaaatcca 360
 taagcgggtt tcgagtttct t 381

<210> 20584
 <211> 411
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20584

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 gcgacaatta gatgtcaact ttcacgggtc anagtatacg tgctcgattat atagaagtcc 120
 ctatgacact tatcatgatg tgatgttttag tagagatttg attaagttac aaatcctata 180
 tattatatat taatacatta attacattaa gtaacataaa taaattgcat taattacatt 240
 aatttatgga aattaattat catttttaatz taattacatt aattaataat ataaaatttg 300
 tgaatacctt ttgcaatzgt actcttcaag ggcattggat agaagactcc aagtatattg 360
 agtcagagat gcaagagaaa gtcctanggt tctcatgaat cttggttatt a 411

<210> 20585
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 20585

taagcttttg agggatatttg tgggcaaagt tcgcattacg tcataatcag atcggactaa 60

caatgtctgt gcttaatttg gactcacaat ttcaaacca taccctgtgt tttattgaga 120
 aaattcgagt tgggccagct agtccaaccc attgtgtcac ctttactcta gagtatgcta 180
 gttttactta tgaaatgata aatatattta tgtttgatcc ttcattattca aattcggtcc 240
 ttgggagggtt caaatatgag tgtaaacaaa acttgttgat tataatactt ggattagcga 300
 agactcagtc ggcattcatag tcctatatgt caattcacca gcatgtaatt atgacactct 360
 ctatccta 368

<210> 20586
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20586

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 atttctgatt tctgaacggc aatntataag agaagggtata tcgcatctt tcaaaggatt 120
 gcaggcacat atattgaaaa ctgttctcag ctctgcatta cttctgatgg tgaaggagaa 180
 gattgcaaag tccacatgga ttctaactct cgtgattgga agatacctgt ctgtgaattc 240
 ccccaaattg aaggcagttt gaatgtgtga ttattatata ttctttaaaa ataaaattca 300
 tcaaagaatg tgctataatt gtctgtctgc tatggaggat aat 343

<210> 20587
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20587

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 cttgaggata gaaacttctc aagctattta tcttctctct cagagaggct ctctacttgg 120
 attgactcac tctacggtga ctactcaag cttgaggata aagacttccc aagctattta 180
 tcttctctct tagagagggt ttttctcact ctaagaaatg gattcactct tgcttggatg 240
 gataggaatg aaggctccta cccttattat actactccac ctccacaatg aatgggtggag 300
 atacttgtat cctanggtgg agactaattc tctagaatgc tcccacattc tangagtctc 360

tacactcttc tactctcttc cataactt

387

<210> 20588
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20588

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tttttacatt gttttcctaa attctgggtt taattaaggc atccaaatca aatcaaata 120
aattctatct tttgggtataa ttacttatct atgtggatga tataatcatt gcaacaagtg 180
taaataatcc tgtaatcaac aaagttttcc ggctcaaatt acagcaacta ttgaaaacat 240
aatatacttt cttgggtacct tgcctattcc accaaggcat agaagaaata tactctaata 300
tttacttgaa gaaataggct ntatggaacc taatatataa attgaatgta attaacgatg 360
gtaactagct ttgtaccaga cttttctcaa tatatataga agacaca 407

<210> 20589
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20589

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tcttaattgt ctttgggctt ggcgaccacg atcaacaaag tactttcggc acctactata 120
tggtgacttg accaacgctg ttattggaat gctgcgacaa tctttcaaca cttattgac 180
acattctgat aggttgggtg tcatgtgacc atatcgtcgt ccagatgtat cgtaagccat 240
gctccatttt tcctttgaaa tgcgatcaat ccatcttgct atggctggac tcagttgacg 300
aaatttttct aagttttgat caaacacatg cttgcaagga gtgtacgctg catcnaaatt 360
tgtatcatnc aaaagtgtac gtagacattc aaactcaaat aaattaatgt ata 413

<210> 20590
<211> 455
<212> DNA
<213> Glycine max

228

<210>	20591
<211>	370
<212>	DNA
<213>	Glycine max

acgccatagc	agcaaactcg	gcatttcact	aaaaccagct	ccgggagtct	tgagcccaaa	60
atttgcagaa	agatgcccaa	caaatttccc	ccaccaaggg	taccattagc	ttgaactcat	120
ctaagggatg	caggccccc	taactcctct	acatgcttgt	ccgatatgtg	gtntccatga	180
cttaataaga	aactttctcg	ccattgcctt	acatatttgc	tggagagggg	ggattctatg	240
ctactctttc	tcacagtata	aaagctatca	gtaccgaatc	taaggagcat	tctgtaattc	300
aagacagata	gttaaataca	tgaatggtat	actggtttat	caacacaaga	ggagtctcta	360
ttcataagtt						370

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<223>      unsure at all n locations
<400>      20592
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8627

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 agaatcagag ggttgcttat atttgaggca tttgtcggct ttgtggtcgc cagttgttgg 240
 tctttgatca tgaagagttt gcagttttga agtgctcgga gctctgtgca ccgaagttgc 300
 cattgtccag agagaggatt gcattcgagg aactgtggag tcagcagttt ctccaggtct 360
 tagttcacag cttattgttt ggtgctttgg ggtattcct ttggaggaaa gtgcccattc 420
 ttgccaagac tgtgttgtec ccttcctccc ctt 453

<210> 20593
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 20593
 agcttctttt ttagacctcg atcggtcgtc cttcctggcc gacgccgact ggcatttttt 60
 tcgatcaata tcggtgaata atattttttt tgccgagggtg ggctaagtgt ttcttgcccg 120
 aataaatcgg aacatgccag tttcgggcaa aacgaaacat cggttgagct cacacgaaaa 180
 aacctaaccg acctacattg taagtttttt atgcaacacc gaaacaagaa aacttcccct 240
 gccgtaagaa aaaacattat cggccagcga gcgttttttt tttaaaaaaa a 291

<210> 20594
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20594

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 aacaacggaa gctctcgaga aattgaaatg atcataactt ttactcaga ttacgatctc 120
 agacgcataa tatatcgaga cgctcgaaat tgaactacgg aagctctcga gaaatttaaa 180
 tgatgataaa ttctcactcg gatgtccaat tgaggaacat cagatatcgt gacgctcgaa 240
 attaaacaac ggaacctctc acgaaattca aatggtcata acttttcaca cggagatccg 300
 attcatgcac atcacatatg gagacgtccg aaattgaacc acggaagatc tcgagaaatt 360
 caaatgggca taactnttca ctcggatgtn cgattcacgc gcatgatata tcgagacgct 420

caaaattgaa caacggaagc tctcgataaa ttaa

456

<210> 20595
<211> 338
<212> DNA
<213> Glycine max

<400> 20595

agcttcttca ttcaattttg accgtcttga tatgtgaagg gactcaatca gacatccgag 60
aaaaaaacta ttgtcgtttg agttggctta aaaccttcac attcaatttc gagcgtctcg 120
atatgttaag ggactcaatc agacatccga gtaaaagtta tgggcctttg aattggctca 180
gagcttcaac attcaatatc gagcgtctcg atatggtacg ggactcaatc acacatccga 240
gaacaaagtt atcgctccgtt gagttggctc agagcttcaa cattcaattt cgagcgtctc 300
cgtatgttac cggacctcat cagacatccc gagaaaaa 338

<210> 20596
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20596

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atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac aataactttt 120
ttcacggatg tctgattgag tcccgtaca tattgagacg ctcgaaattg aatgttgaac 180
ctctgagcaa attcaaata caataacttt ttactcggat gtctgattga gtcccgtaac 240
atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aatacaaacg accataactt 300
tttactcgga tgtctgattg agtccogtaa catatcgaga cgctcgaaat tgaatgttga 360
agctctgagc caatacaaac gaccataact ntttactcgg atgtctgatt gagtcccgta 420
acatatcgag ac 432

<210> 20597
<211> 351
<212> DNA
<213> Glycine max

<400> 20597

agcttttttg ttcggtgttg ccaaaaaatt tacaatgtat gtcggctagg gtttttcgtg 60
cgagctcaac cgaagctgtg tttcggccga cactggcgtg ttcccatgca ctcggccaaag 120
gaaacattag cccacatcga aaagaaaaaa aaaacattaa tcaccgatat tgatcggaaa 180
aatgctggt tgacgtcggc caggaaagat gaccgatcga ggtctaaaaa taaaagaatc 240
accggatgac gccgatcgag catttcctaa ttgacatcat ccaaatttg ttcagggatt 300
ggatagaaaa aaacatagct gataccagtc gttatgtagt cccgactgac a 351

<210> 20598

<211> 425

<212> DNA

<213> Glycine max

<400> 20598

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agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180
attctttcct tcctttcatc ttacccttg ttctttcaaa ccacaattcc agaaaatcca 240
cctctgceca gaattatctc gtggccataa ctcccatttt acgcactcaa attaagtgat 300
tcttgagcct aaattgactt tcaaaacgag acctttcacc tcgttttgga atcacctcat 360
ttggagccct gtagcttcag ttattgccat ttctatattt ctgtccagcc accacttaac 420
ctaca 425

<210> 20599

<211> 224

<212> DNA

<213> Glycine max

<400> 20599

tgctttcaag cttgtttgtg gggctttctat ggaggctgga tctttgagct tcaatgacgt 60
cctttaatgg tgattttcca ccattgagat gcagcggaag actaacgaga tactgtgaga 120
ggaggcgcca tccaccaggg aatatgcctt ggaagaagga gcttcaccac caagatgagc 180
cttgataag aagcttggag aggatgcttc aatggaggaa aata 224

<210> 20600
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20600

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 atggatgaat actctcctag aacctaagat tttgaatcct agagaaacca tgaattattt 120
 gcagcctaac ccctttacaa gcctagatag tccttcggat tcattntgtg ttcattggctg 180
 tatgatatga gaagaaatgc aaagggttga acttggtgtg gctgtttatg atggaataag 240
 cctaaacact tgagcttgag tgaaacaatg gctgtgaggt tttgggtgat gatccttctt 300
 tgatttttgt catgcttact agcttatttc agctgtgatt ctaatgctta tgctcctatc 360
 tttgaaaagt tgcattgctg tgagaagtca ttgatttaag cattccatgg tattcagttc 420
 atatggttga cttcctttat gaatcagaca c 451

<210> 20601
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 20601

tggacgaaaa gaaagaggga gagaaagaga gagacgggag cacgaaattg aaggaagaaa 60
 aaggggagaaa agttgaactt tgaattgtgt ctcacaaaac tctcattcat caaagttaca 120
 acaagtggta cacatgtttc tatttataga ttacgtagct ttcttgagaa gctttcttga 180
 gaaaacttcc ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac 240
 c 241

<210> 20602
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20602

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caatataagg gagttcatta gaaacactct gagatagata gatagatata tatagagaga 120
gagagagttt ccttgattta tgtttttcgt tagtaataac atacacaacg tgtgctactc 180
tcttcttctt ctttgacaat cttcttcctt attctgaact tattttctca gtcttaataca 240
caacaaatat catgaatgac aaatttgaac ctatttaaaa atataaagga ccaatatgaa 300
cttaattaaa ttcataaaag atcaatgtga attaattntt aaaacataaa cttcattnta 360
taccacatta tcaacttttca ttccaccctc tagcagacat aatgactata tgatggaaag 420
aactaanatg gatcattttt aaaatt 446

<210> 20603
<211> 403
<212> DNA
<213> Glycine max

<400> 20603
agcttttctc atagatagcg atggatgtat agtttttgca aacatgcata agaaaaatga 60
aacaagaagg aaagagaaaag aaagacctcg aacgtcggca tgtatgggtca taagaagcat 120
aatcattcg tagagagcca acatatcttt tggaaacaag agactgacgc taagagttta 180
ttttccagaa taaccgagat aataatggat ggattcattc aaccgatgaa agaacataat 240
ttggaaatat tgggtctact tgcgtaaatc ccaagccttt tagtatcaca atgccatata 300
ctggatgctt gagtaccac ctagctgtag ccatgactaa ttgtgcacgt tgtatacaaa 360
tcgtcactgt tacgcgtgcg ttgagaaata atatgaattc acc 403

<210> 20604
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20604

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agtgcagagt gctcaagatt tctctttcca tcattcttga tgagtatgct ttaaccaagt 120
agttaagctc gaattagctt taaccaagta gtcgatttcc tccgacgacc agctgattct 180
ccgtcgccga caatcgaca tctcgcgacc ccggctaact tctccacaa tgcacacgtt 240
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Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

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gtcaaaatta	aatctgaaac	tatgcaatct	agtcttctgg	ttacagtttg	aattttccgt	360
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8633

<210> 20607
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20607

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<210> 20608
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
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 tggtttgtgg aagtcgtggt cactgctagg tctgtttggg gtgctcacat tgcagtctgt 240
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<210> 20609
 <211> 387
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20609

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<400> 20610

<210>	20611
<211>	319
<212>	DNA
<213>	Glycine max

8635

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<210> 20612
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20612

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 ttagccactt tcattataag aatcagtgtg cattgttaca ccagactaat tgcttatcta 180
 ttttccagtc ttccaataat ctaatctaatt ttctaacaac gttcattgac ttaaaataac 240
 ctatatatga aacaagagta agaacagact aataccttta atagactatg caaaaaaaga 300
 taaattcaaa acaagtatat tgctcattat gtaggggagt ctattttaag caaaggacac 360
 acgttattac aatataaatg taacaccacc ttatggcacc tgaacaattt ctttctcatt 420
 agtggatgac gaaatctaag gatattta 448

<210> 20613
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20613

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 ttccaaccta gttgtgactt gtttattggt ttaaattggt taacttttag ccataaaagg 180
 tgttgtnttc aggtcattgg atttgtatct aactagtatc tcaactgcttt gatataataag 240
 tttaatcttg tgaaaaactg ngcctggatt atattacata aatgtgatta tattaaaatg 300
 ctgctcngat ttttattgat atatttgatc accttaaata aattggtaaa tattgaaaga 360
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<210> 20614
 <211> 534
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20614

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 ggggggttttt gatattataa agtattaata caattataac tggagtacta ttaatcatat 180
 tataggtata tatttgggta ataaataact gtgggatagg tatgtatggt gagaatatgt 240
 gagataaaat agtaggttgt aaaatatata tatgtataaa tttgtgggta tatatttgtg 300
 ggaggggtga tgagagttgt agaaataacg ctnattgcgc catgacgacg atatgagtat 360
 atatgttttag tattattaaa tcttttataa aatcattatg tatgaattag tggggattaa 420
 tgcataattat aaggatgtaa tatattatta aagagtgaaa atattaggtg tagaagttgg 480
 aggtatgata ttattgctaa gtatatttgt atatgtgatt tgagatgtta gagg 534

<210> 20615
 <211> 411
 <212> DNA
 <213> Glycine max

 <400> 20615

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 atatatgacg ggactatatc agacatccga gtaaaaagtt attgtcattt gaatttgctt 180
 agagattcaa cattcatctt cgagtgtctc gttatattac gggactcaat tataattcg 240
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 cgatatatta cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360
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<210> 20616
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20616

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cgaatatatc gagacgctcg aaattgaatg ttgaagctct gagccaattc acacgacaat 120
aactttttac tcggatgatt gattgagtcc cgtaataata caagacgctc aaaattgaat 180
gttgaagcta tgagccaatt caaatgacaa taacttttta ctcgatgctc tgaatgagtc 240
ccgaaatata tcgagacgct cgaacgtgaa tgtgaacctc tgagccattt aaacgacaat 300
aactttttac tcggatgtct gattgagtcc cgtaatatat cgagacgctc gaaattgaat 360
gttcgaagct t 371

<210> 20617
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20617

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taagaaaaat gccatttctt cttctttctt tcttccaaat ccatttctaa agttacaagt 120
actttctcca tcaccacat ccaccattag ccaccacaaa ccatcattgt tctccattga 180
aaacccacac cgagaggaac cttcaaccg aagcagaatt tccaacttgg cttgcgggtt 240
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atgcttggtt ctttagttt catcttgtct ttgcattctt tctaactttg caaccgcat 360
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ttcat 425

<210> 20618
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20618

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catgaatctc tgaattctag attgatatgt atagcttaaa acatgatgaa ggccatgatt 120
 tgtatataca ccagctcttt tgaccaaata gctcaccttg aatgataact ggatcttttg 180
 ctcttctat aagttgaatg atttttgtca tgaatcgaac ccttaacatc aatgattatc 240
 tcttgacact tgctacattc taggagagca tatgggtcaa ggcaaattta ctctaaattt 300
 gggggaggaa agtcaattag aatgaaaaga a 331

<210> 20619
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20619

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 anaccatact tcccacgatt tccttgggtt tttatcaggc tagttatgcc gccattgtct 180
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 gccgcatcgg acagacaagg ttgcccagg agggagtcca cggaggaaat gctgaccacc 300
 tcaaaagact ggaaagcggg ttcta 325

<210> 20620
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20620

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 aattcatgtg ctagagtgtc agttttgggt tgaactccca tattatttcc acgaggcgca 120
 cgtaacaatg atgatttga aacaacgcgc aaaattaatc atgcctacaa ctaggggggt 180
 actcaagcct ccaacttatg gcattatgat actaaagctt gagatttatg caagtagacc 240
 caacgtttcc aaatttggtc tttattgggt caacgaatcc atccattctt atcttggtta 300
 ttttgaaaaa taaactctta acgtcagttt tctgggtcca caagatatgn ttgctctcta 360
 cgaatgattt attctttcta tgaccataac acgtgacct tgagggtctt ctttctcttt 420

tcttttttggt tca

433

<210> 20621
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20621

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tctacgagggc ctgactaac atggaccatc tttataagta attcaaaatg aatcattaat 120
atagattaat ctaaatccac attattatgg tacacctttc ataatatatt ttttctccct 180
cactgccata gtcttgtaa tcaacctaca gcctcctacc tcctatgtcc gaccccatcc 240
tctaattttt atttttttta taaatgcaa acaaaaatat ctgacttaga aaaacataat 300
tttttttagt tgattcaagt cttcccttgt tgcaatcatc caatctaagc tntaaattga 360
tttctttggt ttacattgca tcacttgaat aatntaattc ttcgtatttg actatagaaa 420
a 421

<210> 20622
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20622

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gcttaaaata tgaagaggac attccttaag atagaagctg caaaaataat tatttataat 120
cctacaactg atctgcaatt caatttaca tttagcgacc aaatcatttt gactgacata 180
tcaatatgtg cctccgcacc ataatggcat aatccatgc ctatcattgg cttttggctg 240
cctaagtgtg ctaatgtcga aaagaaattg tgccacggca aagccaccac cgaagcaata 300
ggatggcaga gcctatgaga tatcactatg cagcttatgc aatgagttgg aagaactatt 360
cctgctctac anagtatcat aacaatcnn ttcataaat ctagacanat aatttctcac 420
atccatatag tgatcatgc aaatgaaa 448

<210> 20623

<211> 428
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20623

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 gagacattgt tgtcttttga aagcgtaa at gactaaagac attgaagtct ttggaatgta 180
 aatgacaaag gacttgagtc ctatgaaagc ataacgacag tgggctttga gtcctatgaa 240
 agataaggac agaggacatt gaggccatg aaatcataan acanatgatg ttgagtccta 300
 tgaaacaacc caatagttac tagtaccaaa gggctcaacc ttatgagaaa gcaagagaat 360
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 gatatatg 428

<210> 20624
 <211> 266
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20624

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 tcaacttaact cttctttcta attactctga tgtgtgatgg aggccacaaa tatatagaag 180
 acgtccttac ccgaatgcga accttctgat ccaaantaaa cgacaataac tttttactct 240
 gatgtctgat tgattccgta atatat 266

<210> 20625
 <211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20625

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 aaaagttatt gtcgtagat ttttctcaga gcttccgatt tcaattacga gcgtttcgct 120

atcctacggg acataatcgg acatccgagt caaaagttat tggtcgttga atttgctcag 180
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ttaaaagtta ttgtcatttg actnttcata gagcttccgt tttcaatttc gagcatctcg 300
atatattaca gggctccatc ggacatccaa gttaaaagtt attcgtcgtt gattttttctc 360
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<210> 20626
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20626

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gctttccaag ttctgtatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180
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ttcatcaaac gtatctccta gatctcactc tgtgatttcg agtggttggt ctgataccaa 300
ttgaaattct gataccaggg gacagatgtc gtacaggatg tcacgacatc acgcttcaga 360
acatgcagat tatatgtgtc cgtatgaaca gattaaacca agtaataaca caagagaatt 420
g 421

<210> 20627
<211> 400
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20627

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ataggttgga cctcccagaa gagaatggag tcagcaccac ttttaacatt tctgatttaa 120
ttccttttgc aagtggagct tatattgagg aggaggaact aacaaatntg aggtcaaate 180
ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa tggaccagtc actagaatca 240
tgagcaagag gctccaagaa gattgngcta gaattgctga agaaggccct anggttctca 300

tgaacctcan ggtagatttc tgagcccatg ggccaaagtt gggccaatt atctttgtac 360
atattagact angatgtcat tatatttggc cttggattta 400

<210> 20628
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20628

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ggatggcgcc tctcttcat tcttttcctt tgtcttccac tggattttcc tgggggaaaa 180
tcaccattaa aggaccaat tggagctcga agatcccacc ctcataaaaa ccccaccagc 240
acgcttacat cagaattaga gggccctct tttagaatcc ctaccgaagt aggattggaa 300
gaatcaaagt cgcctcacac actttgatta attaaatctt atcgaaggta gagaatggct 360
tgcataaacc attggccact atttcaagtt gagtaaaaaat gtttatacaa atgggacacc 420
gtgtagttca cgaggggact tgtctaagac aggtccacgt ttaaagatca caaggaatga 480
c 481

<210> 20629
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20629

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cttggttttc atagctgaaa ggcaacaatn gtaagtcatt tgcatactcg aattagagtc 180
tataagggta aacgtaattt aatgagaacc acaatatgaa acataagaaa taacatgggc 240
atcacgagat gtaaacaaga catacttcg acaaaaactaa atntaaaaat cacaaatcca 300
gtgatcangg acatgagatt gtcattgtcta attgatg 337

<210> 20630
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20630

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 acctcaggtt aaaagctgca gaacccaaac ggcatgtgga caccaccct tgatttaata 180
 atcggtagca tttattctga aagctcttaa ggatttttct atagggtaat tcaacttaaa 240
 cctttgagac agaaggggga tagtaaatta ctacaacgtg ctatgggtccc taaatcccag 300
 atttaacact taaccacta gttacgagct aagtgattta caatgaatat aatgagtga 360
 ccatttgca ctcaatagct gaggtcatgg tcagatggaa agtaacacga agttgacagt 420
 tgtacaattt atatagctct gaacttttac n 451

<210> 20631
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20631

tgctttatcc aaatggactt accttgaatt aattcctttg atagcccttt tgagccttgt 60
 ttccctttcc ttgttttgaa gctcactaca agccttaagt gaaaaacat gatattacca 120
 tacccttaag gaattntgga gctttggaat tgttttggga ataagtgtgg ggggtttttg 180
 tttcattgga caacttgttt tgttggctat gcttcatgat gtattttggg ccatacttga 240
 tgtacattgt atattggtta aatgttggac atgctgaatg aaatgttgtt tctcaaaggc 300
 taaagagtaa aaaaaaaaaa aatctanaaa aaaaaaaaaat ct 342

<210> 20632
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20632

tgctctaaat ntacattgat gtttgtatattt attggaggat tttgtatgcc attnttgttt 60
 taagagtagc atcccttggt aaaactaact ttccaaatgt ttgccttcac aggaaatggc 120
 cccgaggaag cttgcctcaa agaggtccag gaaagataaa gcggccgaag ggactagttc 180
 cgctcctgag tatgacagtc accgcttttag gagcgctgta caccagcagc gcttcgaggc 240
 catcaaggga ctgcgtttctc cgggagcgac gcgtncagct caaggacgac gagtatactg 300
 atttccagga ggaaataggg cgtcgacggg ggacatcact ggttactccc atggccaagt 360
 tcgatccaga aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcggtgc 420
 gtgacatg 428

<210> 20633
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20633

tgtttgcttg ctttatctca atggacttac cttgaattaa ttccttagat agcccttttg 60
 agccttggtt ccctttcctt gttgtgaagc tcaactacaag ccttaagtga aaaaccatga 120
 tatcaccata tccttaagga attttggagc tctggaattg ttttggggaat aagtgtggcg 180
 ggtttttggtt tcattggaca acttgttttg ttggctatgc ttcattgatgt atnttgggcc 240
 atacttgatg tacattgtat attgggtaaa tgttggacat gctgaatgaa atgttgtttc 300
 tcaaaggcta tagaantaat aaaaaaaaaa tt 332

<210> 20634
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 20634

ggtaaaccag tgtcttctat tctgctttta ttattgttat ggttgggtga aaatttgctt 60
 gcaaccctg attggttgga aaatagcact ataagatcat tcacaatatt gacaatttta 120
 atattttctt taaccogaat gcacgtgttg attgattcat ataataaata acatgtatat 180
 acttactctc attctaattg tcaatatgca tacacatgtg tttattaatc caaaattatt 240
 cacaccatca gtgattccta caattttctt ctcatttcca ttgccaactt gatctgaaag 300

aaagagcatg attagtcaac tactattaac aacagcttta ctgattgagc 350

<210> 20635
<211> 303
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20635

tatcttttgg agtagaaaca tgggaccaac tcatntatt tcaaaaaaga aatcatatct 60
agtcaaggctc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt 180
gtctgccatc gccttggcct tggctaacia tcggagaagt tcttgactcc cattcaagggt 240
aagagcanac cgatccatcc acatgggtgc ctcttggtgt aaagagtcgc tcacccttcc 300
tct 303

<210> 20636
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20636

agagcctttc atgtctatgc tgcagagcct ttttcagtgt ccactcctga ttatgccgag 60
cttgcaagat gtggctctgc aaccaccaat tatgaacatg gaggaatttc tgcagaaggg 120
tgcctaacca ggaatccagc cttcttcttt gggaaggggg gaagcctctg gcaccanga 180
accttagccg gaccaaggga ttgatgaaaa tccttgaaat ggccaatac aagcttaagc 240
gccagtgag aagggcgaag gccctgtgga gaatgataaa gcccccgagt ggagaaggat 300
gaaagcccaa gtggagaagg atgaatgcc caggcagaga cactatcaag actattattg 360
ttgctgaagc ccagattaat tgagggccac agtaataagt nntaagtata attattttat 420
tg 422

<210> 20637
<211> 290
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 20637

caatttgggg aaaattggat gagggaaaaa gtgggttttcg aaatctgcac tttatgccga 60
 attttgtata agtgcagaaa aatgcttgtg tatggctggt tgtgaaaagg gtagtacata 120
 tgggggttctg gacattntct agcagatccc aacggtaaaa atgtagactt atgtactaga 180
 gacttccagt aaaatttttcg agtcgatcca acgggtaaca aattggaacg aagaanatgt 240
 tactggggta tttgtatgtg aaaagtgtgtg attttgagtt gtgttttggg 290

<210> 20638
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 20638

tccatcaata ttaaagactg cttttaggac acgttatggt ttctatgagt atctagtcac 60
 gccctttggt gtgactaatg ctccagggtg gtttatagaa tacatgaata gagtctttca 120
 cccttacctt gatagttttg tggtagtatt cataaatgat attttggtat actccaagac 180
 tagagaagaa catgaagaac acttgaggat tgtgttgcac accctttggg actgacaact 240
 atatgctaag ctatcccggtg tgattttggt tagagaaagt tagtttctta gggcatgtga 300
 tatctcaagg gggcataact gtagatccct ctaagataga agtcgctctt gagtggggag 359

<210> 20639
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20639

agcttttttaa ttgttagtta gaaccatana tacctagcct caccagtagg ttacaaaata 60
 tttataaagt ataaaccgta cctattttaa gcctatgaag agagagagtc acacagtttt 120
 cccatcaciaa ggtcatgtta aaactcaaca tgaaaagata cattccctaa gttgatttgt 180
 gctctctttt aaactgacta ctaaattgag agggactttt aaattactga actattcttc 240
 aattaacatt aataaaggat ccttggttcc tttgtagcag ggtcctcttg ctgctccggt 300
 tcttcaacac ctgacaaaag cagatttaag caagatgtac tnttgggggt tccaagtgtt 360

ggacatcaat ggtgtgcagt gctttctcac acggac

396

<210> 20640
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20640

tactcagctt caatcggcat actccaçaca aagaatttga tgggattatt ttacagctta 60
ctccacacaa acagattttg aagacaaaaa ttgggcaagt ttctgcagat cgaatgttat 120
gagctgatag gaccatttta tctggcttag tgagagaggt cttatacatt ataccacaat 180
tttaaaacaa taatcacagg aaatagtaag ttataatata aaaagaataa ttttttcagt 240
aacatctgga aattttgttt tggctactgg aatctgatgg cagattgaaa acaaggctct 300
cttccaaggt cttctgaacc ttcattccaa aatttttaac ctttatcatt ntattttttg 360
ttcgtgcaat ttngggattt ctctgtcaat ccaagctatc catagtctcc aaacttattg 420
attagcagtg gttaacacat tggttctggt tctcaag 457

<210> 20641
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20641

agcttctcgg ctcatgctgg gaacgcctct agttcaacac ccgtgcagcc taaggcaccc 60
accagaggg aagctcccca agttccaact ccgaacgga ctcgaccggc cggtaatcc 120
aacacaacaa ggaacttccc tccgaggccg ttgccggaat tcaccccgct cccaatgacg 180
tacgaagatc ttctaccatc cctcatcgcc aatcatttgg ccgtggtaac tcccgaagg 240
gtcctcgaac cccctttccc gaagtgggtat gaccctaag caacttgcaa gtaccatggg 300
ggtgccccgg ngcattccat cgaanaatgc ttggccctta aatacaagg ccaacatcta 360
atggatgccg gatggctgac 380

<210> 20642
<211> 442

<212> DNA
<213> Glycine max

<400> 20642

tgttgacacg cggagattta cgtcaacttt tgtgctcaca ttatttgta tactgacatt 60
tgagtcacgt tgacggggcg agatacccta gtggttatcc gtataaacat tcttttttgc 120
tgtctgtaaa acgaaaagcc tgatagcatg caaaagacta acgtcgtctt ttgcgccctt 180
cgtcaatcgc ggccgacaag cccgttgaca cgcagagatt tacgtcattt tccgcgtca 240
caagatctgt catactcgca tttgatcatg ctgacggacg gaaataccca agtggatata 300
cgtataaaca ttcttttttc ctgtctgtaa gacgaaatgc ctgatagcac gcagagacta 360
acatcgtctt ctggggccctt cgtgaatcgt ggccgacaag ccccgtaga cgcggagatt 420
tacgtcatct tccacgtca ca 442

<210> 20643
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20643

agcttttgtgt ttctgattac cagngtcngn ttctgaaaaa tctaaagatg taactcttca 60
aaaaggttnt gactctttca aatgggtttt aagcttttct aaaagatata actcttctga 120
atggctttct tgaccagaca tgaagagtct ataaaagcaa ggctttgttt tgcattttaa 180
aatcaattat tccaagtctt tctaacaaat ctcttacaat cctttacaag ccttgaatct 240
ctttgaactt cttcttcttc tttgtaccaa aagtntctg aagttttctg gttttctaaa 300
ctttggaaac ttatgctatt catccttttc atgctcttct ccttttgcca aaaaaattca 360
ccaacgacta atcgctgaa ttct 384

<210> 20644
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20644

tgtacaatgc acaggctcac ctatcatgtg ctngaaattg ttattntatt taaagaatgg 60

gagcaacaag gatcaaactc tagagtctag atgactcagt caaagactca tgaaccaact 120
 taataagctt aagctattaa gtaaagatgc ctgattggcc ttctattaca tccctaacag 180
 tgggtgtatTT ttagctgcaa aaacaaattg aaaaatgttt gtctggcatc actTTTTTTT 240
 acacttattt tgtattccta gtaaattgtct actcatatgg acacacagat aaggagagaga 300
 agtaaagaag cTTTTTTTca aagggtgtaa atgtgagact cataaaatgg tgatgggtgat 360
 ggctaaggta cgcaagacat ttcaggtaag ttctaacttt ntttactagt cgaaaaaact 420
 cattac 426

<210> 20645
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20645

agctTTTTta tttanattca aatgtctaaa aagttgttac aaacagttnt aacttctggT 60
 aatcgattac atactttgtg taatcgatta caggctttga aaatcaaatt cgaaattttt 120
 aaaattgttt cagaaatcaa ttcagccact ggtaatcgat tacatcctct gctaatcgat 180
 taccagagag aaaatatcat atTTTTgaaa tcttaaaaaa cttttgtaaa atatccttta 240
 gtcaaacctg tgcaacatta attaaggaat tctttctaag atcctangaa ctaagtacat 300
 cattcttctt gaatntttgg attctggact tggatcgtgc tcatcttang catcatcaaa 360
 acttcatatc atatatgctt ctacacaagg tangtgagga ttatctcatt agttaggcca 420
 ttatanatta ttttctat 439

<210> 20646
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20646

gcttcgatct gttcccatat tagctgggtgg gcttagacaa caatctcatc tatcgacgta 60
 tctctatact tgatttctag aatgaattat gagcatcaat ggggcacttt taaagtctct 120
 aaataaggtc ttgatccctt ctcttggttc ctttgaaatg cctatccaat atttatgtat 180

cacttaaattg tatctatcct taaactgaaa aaaagaaagg caaaaaggac aaaaagaaag 240
 aaaatgagct ctttangaac ccctccactc ttgatactcg tcggactaaa atgggttgga 300
 gaataggtcc aagtgggtgc aaagatgatt tgtctaccca tgatgatcag tcgattttat 360
 ccctattctc aagaaacctc cattccagac gaagtcttgt ctcagtattt ctagtctcct 420
 atg 423

<210> 20647
 <211> 190
 <212> DNA
 <213> Glycine max

<400> 20647

atcactcttt tactcgggtg atcactcttc tttttatatt cctttgtgga gcctcactat 60
 tctctttctc ttgttctctc gtttctctca ttctgatttg gacatcacat gcttctctac 120
 gggatagagg ttttaagacca aacgaggaag atttgactat tcgtctgtag ggctcttctt 180
 tgtacggttc 190

<210> 20648
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20648

ccacaccact ccccaaaaat aaacaaaaga cacaggnac ccccnnnncg aaaggagagc 60
 ctgacctcga aacngaacan ananaccaac nngaagaaca aaggagaggg aacgaaacta 120
 tgagatgatg cgcaccacga gcacggggggg caaacggaga atcgagaaca aaacgaacaa 180
 aaaaggagga gaaaaggga agacggcgggt cctagacgaa accgaagtga tgggaacaaa 240
 cgcaacagac ctccacacaa aggaaagaag gaaccggacg cccaccagga acgagagagg 300
 aaaacagagc aaggcctccc aagccacaac tatgatgcga ccacacgcga agcttgccaa 360
 cacgggagtt tccgaccatg cccccgaggg gcgaacaagc caccaaagga gagagcaaga 420
 catgaacagc caacggccga acacggaccg gaacgaaaag atcacgagga agcggatgcg 480
 ccggccaaca cacacaggac acgaaaccaa gcacananac cn 522

<210> 20649
 <211> 432
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20649

 atcttttttta ttttaattaa aacgttcaat aaactgctgg taatcaatta ccatccatgt 60
 gtaatcaatt acacgttata aattttgaat tcaaatttct agtgactgtt ataaacatct 120
 tcagctgctg gtaatcgatt accagagaaa aaatctcaat tggaaataat agaactcttt 180
 ggtcaaacct tntgttnttt caatttggaa acttcttctt aaagattcta gagatcaact 240
 tgatcatata tcttgattnt cttggattct tgtcttgaat aaaacttaga agcacttgat 300
 ccttttagcat catcaagaca tcaaaacatc ttgcttctac atangagtca nttgacttaa 360
 tccatcaact ganaaatcct tcaactatct ctcgtccttg gaaaattcat ttgcangaat 420
 caactgcatc tt 432

<210> 20650
 <211> 429
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20650

 tcaactggtgg atttctcaa tgagcaagtc cttctaatgc tctggcggtc aaacaaaaac 60
 aactttttcca gccacagatt ttggcattgg ttcccataat tactaaggta gcagagcaaa 120
 ctgcccagta aaatccttta tttgttgaag acaagcaaga atcctcaatg agcaaagaga 180
 attgaagaac agagagtgg cttttttaca tttcaaaaaca gatttgggta cagaagatcg 240
 gaatttgtga caccatggtg caacatgaag taaacagacc acattttata aacaaccaa 300
 tctaaaaaac tataagatta acaagaagcc catttgaaaa ctaacaccta acacaataag 360
 ctgaagttcc aacatgaagt tacaccanat gcctgcttat agctacatag gcaaatacat 420
 atccctcac 429

<210> 20651
 <211> 421
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20651

atcttttaga attcacccca attctggtgt cctatgctaa ccttctctca tatctactcg 60
ataattcaat ggtagccata accccagcca tggntcctca acctccattt tttcaaagat 120
atgactcgaa cactacatgt gcttatcttg gaggagtcc ggggcattcc attgagcatt 180
gtangaccct gatacataag gtgcaaagtc taattaatgc gggctagttg aaatttgagg 240
agaatcgctt gtgaattatg acattggcaa gcgacactat acatggngca atttgaaggt 300
tgttggttaga tgtctctaata gactttanga ttttcaagtt tatgccatta ttctaacagt 360
tacaatgcta ataatatgat aaatttgaca tccttgtctc tcacccctc acagntacat 420
c 421

<210> 20652

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20652

gtttgtcttt gacagtgaag aacaggatta tttggttatc aanccattnc taagaaaacc 60
caaagaaaat aagtgttga aaggcctgcc atccgaaatg ccttggctat tgaaatcctt 120
gaagaaaagg gttatgaagt tgaaaaaatt tgatggccaa ttaaccatct atacctgctt 180
aagaactgga gttatgtang gaagggtggt atgggttggt tggctattgg tctttcataa 240
ccaacccatc tcctatgcaa tgaatatttg gatagtgggt gaaacaacca gttttaaacc 300
agatttggtg atgggtgaca ctgatgtact ctggataggg tggcatggaa actcaacaag 360
aatgacaata tcaaccattg aaatcttccc agtcctttta gccacaccct taattntgta 420
ataccacaaa gttatn 436

<210> 20653

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20653

tttcttctct cgtatgaaat gaanatcaat ctctatgtgc ttagtccttt catgacaaac 60
 tgggtttgag gcaatatgaa gagcatcctg attatcacia tacaacttca ttggcaactc 120
 ttcacaaaac ctcaattcct gcagaaacta tttaatccac atgagctcac aagtaaccat 180
 agccatagat cgatattcag cttctgcact ggaccgagcg acaactgtct gtttcttggt 240
 tttccaagaa ataagatttc ctccaatgaa gacacaatag cctaattgtag accttctatc 300
 catgggacaa ccatcccaat cagcatcaca atatcccgat agttgtgtat tacccttggtc 360
 ttcatacaat aaccctagac caggagcttt ttaagatata tcagatacgc atgacagcat 420
 tccaat 426

<210> 20654
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20654

agctcgcttg ggcaagcacc ccctgcacaa tataattaaa ataatgggg gagngcaggt 60
 ntttcaccca aaacttatcc ccctcactca agaacgcagc acccgtggga atgaggggtct 120
 ttttctgacc ctatggcacc attttgggct ttttgcttcc attttaaggg ccctgatcac 180
 tccatacaag taaatacatt attctttggt ccctaacttt tcgttgatgt atttttatgc 240
 tctaaacgta catattgggtc aatttcgtga ggaatttggg accaattcat gccttgattc 300
 attgaatngg nggggtgtan gggatggccc tangcctatg gtgtgttctg aaatgattgg 360
 gcangccaca ttgcccccaa tcccttcctt gttatacacc aaagtgcgcc caccaagtgc 420
 tcagtgaat gcct 434

<210> 20655
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20655

aagctttcat gaaaggatgc gctaagcgcc aacatcattc tattttgaag tcattggaag 60
 tgtgcttagc acaggtagtg gcgctaagcc tgaatcactc actgtaagtt gaagcttgat 120

gtacgctaag cctcgcatct caggctaagc gcatattgca gaaagatttt tgggtgttgca 180
aattcacttc ccaagaggct tgggaaagat acatagatgt tattgtgcct aggaagcttt 240
tggcagagag gaatgtggtg gtctactata cagagtttga tgagttcaag gaggaactcg 300
agacacacca ctangatgag gagttgactg actttggtga cagcaacatt gatgttgcca 360
ttgtgaaagg aatctacgcc aacctctatg accncgagga canatcacct aa 412

<210> 20656
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20656

ntanaatttg aattanaacg ttcagaaaact gttggttaatt tattaccata tatgtgtaat 60
cgattacaca gggcaaattt tgaattcaaa ttttaatagc tgttgtaaat cagttttggc 120
cactggtaat cgattacatc ctctggtaat caattactag agagtaaatt cttggccaaa 180
ctttttgcta cttcaattgg aattcccttc ctatttaata taccctttct aagactctat 240
agactgtctt ctcatcctct tgaatatctt taattgcttt gtcttgaata aagctttgag 300
acgcatgtga tattntggca tcatcaaaac atcggttga tctttgtct acacctttat 360
catttangaa caacgacctg agtgggtaaa cgcacagaga cagattctgc accctttatc 420
attcangaac cacaacctga 440

<210> 20657
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20657

tgcntttgca tcnnngnaga acccacatgg gatcaaatga caaagcatat cagtctgttt 60
atcaggaacc tgatgaagat gagattgtgg gtgtttccct ctcacggtca cttctaagtg 120
tagctgcttc agctttgatg accaatataa cagacttang ccctcttgtc ttgccctatt 180
ccgagcagct gcgctatgga tggtcagtga tttccaggaa aatgtgggca aggcggaaca 240
aggaaatgta tgttccanat ttcatgaagg ctttngagca tttctgcata catgctggtg 300

gtaagtcagt cgtagatgcc atagaggaga gtctgaagct gcacaagaaa gacggtgaag 360
cctcaaggat ggcattatac agaattggca atacttcac tttctctgt 409

<210> 20658
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20658

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atagtaatta attgctaact ttgatagcca atttggatag gctgggtgaa atttgatata 120
atgtcaatag taaagtggaa actgcaattg ggccaataat cttggggtgg ccaaggaaag 180
tattcgtaga cattaatttc atgcatatga catgacagaa ataaagagaa tgatgaatag 240
aatcgcttgt taaaatcgat ttacatatga tcacacttat atatgctgnt gctatcaatg 300
caaggggctg attaataaaa gatcgaaatg tattatatgg cttataataa caagtccag 360
tagatgttgc atataaac 378

<210> 20659
<211> 334
<212> DNA
<213> Glycine max

<400> 20659

agctttctct aaatcagtca aatgttgatc tataccagct aacttgacta ccacatcac 60
aacatatact ttgatgtttt gcccaatggc atcatgaaaa atgagattca tagccctcta 120
ataagtggca ccaaccattt tttagtctaa acgacatcca taaccattca tatatccaa 180
gagctctgag acaacagaat atcatttttt gcatactac aacagccata aaaatcttat 240
tctaacaaa atgaccatta ataaaggtaa gaacaccata tttggttggt gcgtcaacta 300
acatgctagc tatgggtata acatactcat cttt 334

<210> 20660
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20660

ggtgcccttg accttgggcc ttgantnecn gacctatgaa actaagctta accataggta 60
gatgcacaca aaatgggttt atgcatctta aatacgccct catgtagcag cttttaaact 120
tgaagtgtgg accatgccaa gagttgggaa ttcttaaagg agatggaggg tttttattag 180
taccacataa aagatggaga gttggccatg gccttatacc aatgtgggac aatgggtctt 240
gaaccaaac gcccttgct tcattgggaa gatgttaaac acattggcct gggccatttt 300
aaatgatgga agaccatttt atacttgaag aaaggacaca taagtgactg gtttactcaa 360
gaaggaataa atgggaggat agtgcaacag tgcaagagaa aaacagtagg gggagggagg 420
tgattcttct ggatcatgag cacaaggacc tgannattca ttagaggaga gc 472

<210> 20661
<211> 385
<212> DNA
<213> Glycine max

<400> 20661

acatagatct gtatggtgat ctgcagaaga acataaacca cagactcttg caacaagtgc 60
atatttctga ttcattggca gctgagttac taggttaacc aaggcatcaa gttttccctc 120
aagcttttta ttctcagcag atgaagatga atccatggcc acctcatgga ctctcttaag 180
gacaatagca tcatttcttg cactgaattg ttgggagttg gaaaccatct tctcaatcaa 240
attcttagcc tcagcagggg tcgtatcacc aagagctcca ccattggaag catcaatcat 300
actcctctcc atgtagctaa gtccctcata gaaatactgc agaaggagtt gtcagaaat 360
ctggtagtga ggacaacttg cacac 385

<210> 20662
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20662

tcanaccaca gcaacacana atctaggtgt ccaaaacccc tcaattcaat ggcttttcta 60
ggtttgaaag gtgaaattta gaatgaggta aatttgaagc aaactctcac ctcacacaag 120

tccataacat caatctaaac ttgctcaaac tgaatttaca ccaaaaaattc caccaaataca 180
aaatttgact cttcaacacc caattttgccc ctagaaatgg ctcttggttc actttgggtca 240
tttgtttttc tctctagcta gcctaccttt ctcacatgtc ctaaatagaca tttcaagcta 300
gtattaactc actttaacct ccattttacca caaaattcag acttagcctt ccaactctca 360
aagtctcacc ctttntccac tcataacatc acattctcac tntctaacc taggttagtt 420
ctacccttca tctctaaca 439

<210> 20663
<211> 372
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20663

agcttttctt tttaaattaa ttaagtataa ctaattttta attaaattta atcacattta 60
aatccctca ctctttttta attatacatg atgtgaaaac taaactcatg ttctccgaga 120
agcttagcat ctgttggtcaa agaaattgat ctctcaacac aaatttttct ttgtatgctt 180
ggagttggaa ccctgaccac atagactctc ccatgtgctg tatatgattg attagaactt 240
acaacaacta agcctagtag tggctttcat attcacccta tcttccaaag ctaaacaggc 300
atttaattaa ttatatattt acgaataaat atatgaagat gaagttgtct ctggttccat 360
atataaaaca cg 372

<210> 20664
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20664

tgggaaaact aaacctcatt acattatttg agagctanat tccatttttt ccaagactta 60
tccgagaaca ccaagatttt cccttgctgc accgctcaca taggacaggc ctttaacta 120
cctaacaaga cggtgaagta agttgtttca tttgcatatt ggaataattt cgggcaaaat 180
taggacaaac cacaatggcc aagttgtaag aagtggtaat gccttattat caacggtggc 240
tttgatcagt cacaacgcac gaacgcactg ctaattaatt agatggcata tatatatctc 300

tttcgtcaat acaccaatga cccaaaaaag aagataatta gcattcccaa ctaacctttc 360
 cttatgcagc ttgactact ttccgataca aacccatatg atcttgcttt acaaatacca 420
 ctga 424

<210> 20665
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20665

tatgactgcn attcctgctg ttccgtgag caatggagtt cttgagtgaaggngcggcg 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntacataa anananacaa 120
 accatctaaa caatctctc tatttatctt acaaactacc tccttatcaa tattaataa 180
 taaatccctt caaacactta aatctataac ataattcctt cttacatctt aataattttt 240
 cactataaca ctttattaat tacaattatc cttatatact taacaactta ctcattttta 300
 catcatctct tttcttctat ttatccacct cataactaat aaaaaatacc cccatccaat 360
 acatcacatc ttccctaact ac 382

<210> 20666
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20666

nttgaagaat caagaatttg agggtaacc tcaagatggt gtcaaacttt atgaggtata 60
 taaaacctta aaaactacat tagccaaatt tgataatgga acaaataata ttaacaaact 120
 attaagatat tgtagaagtt cctcaaaaaa atttgtaaat ggaaatgatg aaaaggtata 180
 tgttcatgat gaagacaaca ttatctatta cttttgtgga aaaactagac acatgacatc 240
 cagatgcaag gatcgaccaa gtaggtgcaa tcaatacctt catggctaac aaaaagaac 300
 ccaaaaatat ttgggtacct aaggaaaatg ttattcttat tgcaatgtcc ttgaaacagg 360
 aagaaatgcc tatcatggac ctggaaatgg ntgttacaaa catgatag 408

<210> 20667

<211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20667

agcttatttg gtattgtata cgtaccaaca tattacttgt attcatttat gtgagcacia 60
 gttttttaga tgagggttcaa aacatattat tatttaattt gattgaattt tccttctctt 120
 tatttttttt aatatttagg ttatttgaat aatttaagta tcaatatctc tccatttatt 180
 atctgcatat ttaaattctc ttcagacagt aatctttttt tttgttatte ttcttttctt 240
 ttcccactaa taaaaaatct ctcaagaccc ctctgataac tntgtaattg ttcttttagga 300
 aattattaaa agctttttata ttctataata attntagtaa tgatgttatg caagttttat 360
 tacttaaaact ctttatagta atattttggg tgcaacaact tttaatgacc taccaagttg 420
 nttcattaat attact 436

<210> 20668
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20668

tanagtacca tagtttcatt aattctcttt aggtcgtgc tttggcttgt ggataccata 60
 ggctcccttg tgaatttaac caaagagtca ataattttaa taatgtatct ttgcgtagtt 120
 caacatatac ttgcagtaat aaaaaatttg gtaattatta ttatacttac ttttggtaat 180
 ataagttcat ttcacaaaca ttaatatact aatataagta tttaaaaact tagcatcatc 240
 agttaaaaaa ctaattaatt ttagtggtccc tttcgatctg ataaaaatga actaattttt 300
 agcatttgaa agtagtattt ttatttaaaa atatttatta tactaaaaat ataaagtgtg 360
 ataaatattt ttttaataaaa aaatcatttt tatatgatta actataaata ctataaactt 420
 atattggata tataatagag aaactat 447

<210> 20669
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20669

agcttgtctc atcgtttatg cgagacagag accaacaatgt tagctatcat cgccaagtac 60
caagaagagt taggtctagc cacggccac gagcatagaa tcgcggatga gtatgcccac 120
gtatacgcg aanaagaggc tagaggaagg gtgatcgact cattgcacca agaggcaacc 180
atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240
gccaaaggcca aggcgatggc agacacctac tccgcccccg aagagattca tgggcttctc 300
ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360
tgtatggtct ctgagacctt gactagatat gacttccttt ntgaaatana atgagttggt 420
cccatgtttc ta 432

<210> 20670
<211> 214
<212> DNA
<213> Glycine max

<400> 20670
gaatgtttat acggataacc actcgggttt ttccggccgt cagcgtgact caaatgtcaa 60
tatgaccaat cttgtgagcg cggaagatga cgtaaacttc cgcgtggtta agggcttgtc 120
ggccgcgaat gaccaaggac gtaaaagacg tcgttagtct ctgcgtgcta tacgctgtac 180
tcttactgac accaaaaaag aatgtttata cgga 214

<210> 20671
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20671

ttgcttttct aaacaaagtt tatacattcc agtccactca attcatacaa ctctcattca 60
tttcaaacac aaccattcat ttaaaaccaa aacacaccac tgaatatcaa attcaaccag 120
ttcactgttc aaacaagctt tttgtacaag caatcaacac taaattaact ggaatntaaa 180
tgactaaaat ntaaatactg aaatttaaata aactgaaaca taaagcataa actaaataaa 240
ctgatcaaaa taaactgttc aaaatgcaag acaagaagat aaagatcctg tcaatcctcc 300

tacaggtgat cctctgcatg cacattaaga tccaacactg gagcgggttg tggatcctgt 360
acagt 365

<210> 20672
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20672

ctangaataa agcttccttg gagtattttt aagttgttga aatattgcc aatctaagt 60
aagagcctcg tgtaaaatga cattcaattt cttataatcc atttcaaacc gaaattgtac 120
tttaatat t gaaatgtaat aaaatgatga tagatttttg tgcttttggt ttaaacatta 180
ttcactgagg agagaatttt tttccctgcg tcatggcaac cacattttta acttaagatg 240
attgaccctt gattggaaat gagggcatgc cttgcattgc tagaaaataa gacatttgct 300
attgatgaga aagtactccc ttagaatgag tgtcaaccac ttggtggcct aagagggat 360
atacctctag tgccaacata tggggaatc 389

<210> 20673
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20673

ttctttttat ttacatgga ttatcaatga tcttttaata tatatctgta ttcccttatac 60
aatacattat nttggagtaa aatgtcaagt ttacatact tgacataaca gattgtcatt 120
attctagtca gctatcaatg atctattata ttaatgcagc tcacaacaga ttcccttggt 180
tctttaatac aagcatataa ttctaagaca gatagtttgg ttaatttacg tccgtgctcag 240
tcagtggctt gggatgccat ggtgccttcc aaaaagagga catgtgcagg tcgtccgaaa 300
ccctcatctg ttgagaagct caccagagac ctgtgcacta ttcttcatga acaacagtct 360
ttattt 366

<210> 20674
<211> 366
<212> DNA

<213> Glycine max

<400> 20674

tagcaatact aacctcacia agaagggcag gttttttaac ttcttaattt aactacaaga 60
ctcttacact catttatctt tacatttttag cttcttttac atttacattt atattttaac 120
tttgtttata acttttctac catttttcct tcacaacatt tttaaagcct tctatttagt 180
tttttttttt gcctttattt tactttcaca attcaactgtt agataaattt aatcaatgtt 240
cacactaaac cctcttcaat aactcgagat tctattattg agtaaaataa cttgatcaac 300
aacgagtgat aatgtttaca attacctgat tttattcggc tatctagttg attcatttag 360
ctaaca 366

<210> 20675

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20675

tgctttcttat ccaaagctca tcttagtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtgtaa 120
aatcaccatt aaaggacctc attgaagctc anagatccag cctccataga agccccacaa 180
gcaagcttcc atcaaaacct tttgctattt caatttgga ttccttccct aaaatactag 240
agatcttctt gatgttgat cttgtattct tggattggtg tcttgaatta aacatgagaa 300
gcgcatnttc ataagacatc aaatcatcac gatcatatgg cgtcatcaaa acatcaaat 359

<210> 20676

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20676

gatgcagatg ggtttgtatc taccttatca ctctctaat gactatggca tcatttctgg 60
cgctaaactg ctgggaattg gaggccatct tctcaattaa atttctggct tcaacaagaa 120
tcatgtctcc cagggcttca ccaactggcag catctatcat acttctctcc atattactga 180

gtccttcata aaaatattgg aaaagaagct gttctgaaat ctgatggtgg gggcactggc 240
catagtttct taaatctctc ccagtactca tacaggctct ctccactgag ttttctaata 300
cctgagatat ccttcctgat ggcttgggct ctggaagcan ggaaaatttt ttctaagaat 360
actctct 367

<210> 20677
<211> 410
<212> DNA
<213> Glycine max

<400> 20677

ggctatctct tatcttgaga caccatactc ggggcaaagc gtgaaaggaa gacgacatcg 60
gagtcagcca gcgtaccctt aagacgtgct gctacggaca gcgaaccccg gagcacacga 120
gcgacgcgaa aagcgacgcc agcagcctag cgcaaggccg cgcaacccgc gcgattacca 180
accccagggga accagggacc gcgcagagaa tcgagggcgc ggcggaacc gcgaccgaac 240
cagagcacac agcgggtggac gcgagtggc ggccgacggc gcggcagcga aacagaggcg 300
agccgcggcg aaaacccac gggggggatc ggctctgcag gaccagacgc ggaggcaaaa 360
aacgggcaga gcactcacac acaaagacag ggaaagccgg ccagcgcgcc 410

<210> 20678
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20678

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gtctttcttt gtctaacata cacacttggt caaactcatg aaaaggaaca caaactccat 120
cataatcatg ccttcaattc aaaataaagt catacaccca ttttcacaaa agaataaag 180
tgttttatat gctgtcatc aaaatcaagt caaacttgct catatgcttc agaataagca 240
aaccaactat cctccataga ctagcagtga atataaatat gaaaaaata ctgtactana 300
accataatta aaataataat aaacccaaaa g 331

<210> 20679
<211> 432

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20679

atcttttacc ttctgaaaac cgatagtaaa tgaatgggtt agtgcaaata tgcccaacgt 60
 ggtacttttg gaatcaaggc tgctaataaa aaaacatata ttttttatgc aagttgtagg 120
 ttttttcctt ttccttgta ttattacaat tttactttgg gatatgtact attgtgttgc 180
 tttcatgaga tttcaacatt tagcttttag attgttattc tgaaatctga aaataagtta 240
 ttcatgtatg ctgctcttcc ttgatataaa gtggaaagt aactaggaaa agctcttagt 300
 caatggctnt ttccagtgtt tttcattgat atggatacaa gtgcangtat tgcattgaat 360
 ttctaaagga atgggcacga gaggatattt atatangaaa atntanaaca tanagtacta 420
 acatcataat at 432

<210> 20680
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20680

ttgagccaaa atcctgactc accataaacc ttgtcccagt gtgagaatgc caatccttac 60
 cctcggaagc aaaaaaaaaa aggagaagag aaggaaaatt tccaatcaaa gaggaagcat 120
 aaaaaggaga gaaggaaaat ttccaatcaa agagaaagaa aagaagagga aagaaaactc 180
 ccaatcaaag aatgggagaa gaaaaaaaaa aaaaaaaaga agttaaaaag aagaaagctc 240
 ctgggtcaaag aaaccagaag aatgtgcaga aaggtctttt gaccggacga tatctgaaca 300
 atacagaatt gtcaccaaat gaacaaaaaa agaaggaaag gaaatcacga cctanaatgg 360
 tcttctccct ttaattacca accaaaatcc c 391

<210> 20681
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20681

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 taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120
 atatattacg ggactcaatc ggacatcaga gtaaaaagtt attggtggtt gaatttgctc 180
 agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatcgg 240
 agtaaaaagt tattgtagtt tcaatttgct cagggttcg gtattccatt tcgagcgtct 300
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360
 tcagagcttc tacattcaat ttcgagcttt tcgatataatt tacgggactc atcagacatt 420
 cgagta 426

<210> 20682
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20682

ttgagaaaat tcaaacgaca atatctttnt actcggatgt ttgattgagt cccgtaatat 60
 atcgagacgc tcgaaattga ataccgaagc gctgagcaaa ttcaaacaac aataactttt 120
 tactcggatg tctgattgag tcccgtata tatcgaaaag ctggaatgtg aatgtagaag 180
 ctgagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
 ataccgagat gtcgaaatgg aataccgaag ctctgagcaa attcaaaca taataacttt 300
 ttactcggat gtccgattga gtcccgtaat atatcggaac gcttgaaatn gaatgttgaa 360
 gctctgagca aattcaaacg acaataaact ttactcggga tgtcttgatg agtcccgtaa 420
 tatatcg 427

<210> 20683
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20683

agctttttgt gagaaagcgt ggaagagtca gtcttctac ttttgtttgt tgaccacaga 60
 gtggtacctg gagatatgtc gcgaggggtca ngagaccttg gggacgtcag gtgggggtgct 120

attgcccaaa accaagcttg accaatcccc acccaacccg ggcatagtca gtcagtggga 180
 acctgtgatg tacctaaaca gacgagctcc tggcagtcaa ccaataaaag aacaaagacc 240
 acaaagcaag gaggcttgtg tgggtggctgg ccagctatga atcttgagtg gtatctggaa 300
 tttggcctct ggtaatcgat taccaagggg gtgtaatcga ttacaaggct tnaaaatgga 360
 gataggaagt taagatggcc tcttgtaatc gattaccaag ggtgtgtaat 410

<210> 20684
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20684

tgaagaggat gctntaatgg aggatttgaa agagagaatg tgggagcacg aaattgaagg 60
 aataaaagag ggagagaagt ggaactttga agtgtatctc ataagacatt cattcatcaa 120
 agttacaaca agtgttacac atgcttctat ttatagacta ggtagcttcc ttgagaagct 180
 ttcttgagaa aacttccttg agaagctaga gcttagctgc gcacaccct ctcataactt 240
 agccacctcc tgagaagctt ccttaagaag attcctaaag aagttagagc ttagctacac 300
 atacctctct aatagctaag ctcacctcct tgagatgaga agctagaact tagctacaca 360
 cccnctataa tagctaagct ccccccatg acannaaaca tg 402

<210> 20685
 <211> 96
 <212> DNA
 <213> Glycine max

<400> 20685

aaaacggaga gaagttgaac ttttaagttgt gtctcacaag actctcattc atcacagata 60
 caacaagtgt tacacatgct tctatttata gactag 96

<210> 20686
 <211> 80
 <212> DNA
 <213> Glycine max

<400> 20686

tgcttgacag catgacgggc atgtatgatg cacgaatgcc tatctcgggtg tcgactatac 60

tgtggatgaa tactcttcta

80

<210> 20687
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20687

agctnnttaa ctatctacag ttacaactct ctctctctct ctctatatat atatatagca 60
atgcaagttt taaaattgga agtcctcggt ccaatcactc gcagtacaca tgctaaaatt 120
gtaggatata aatgttgaat caatataata tatttttggt aagtggcaga aaccgaaagt 180
tgaatctatc aaaatcaaaa tagatgctgc agtgtcacgt cgtgggtcat gaggaatatg 240
ggaaccataa ttagatagga caaacgtacg aagaagcaag gtgacgcaag tacccaacat 300
agttagttgg tcatctcaca ttcacacttt acctttgtca gngccacata aagggtccga 360
atatgtgaat a 371

<210> 20688
<211> 429
<212> DNA
<213> Glycine max
<400> 20688

actaagctta caacattctc gtgcgttata tccctgagta actgctgtat caaatgatat 60
tcactcaaaa ccaatccaaa ccgccaacc attaaataat ttttttttta taaaaaaaag 120
cctcctctgg ctcaagcctc ttcaagggtt ccaaatacta gaaactacag agaactaaca 180
aaagaaaagg aaaatagata aatgaaaaaa aatggcaatt tcttcagaaa ctcgaaatta 240
aaaacaatct aagcgaattc gcttcgaatt tcaaaattac aacttccta ggtgtaatta 300
agcaagcaga gaaaggaata ccatgatttc acgtatggcg gtgggagaga caccatcgcc 360
atccttggat tggcttgaat tttttatggc gaatggattt ccgcgattgg tggaagactt 420
gatgcgagc 429

<210> 20689
<211> 393
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20689

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caagtaaaag gaccacctgc aacagaaaga gcgccggccc aacgcacggc tccagccgct 120
ccccggccag ttaataatac agcccccgac gcgacctata aatatgcaca gcacccgccc 180
ccgaaagata acttctcccc tatttccatg gcatactccg agttatggcc ttcattattg 240
gagaatcatt tgggtggtggc catacccggg aaggtcttcc agccacccta cccaagtgg 300
tacgaccgg gtgccaagtg tgtgtaccat agtggagctc ccggacacaa tattgactcc 360
tgcacccgt tcaagtataa agtgcagcac ctg 393

<210> 20690

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20690

tcggtgggat caaggagtat accacatatt caacaagatt gttgaagact ttaagcacac 60
ccaccctaata aaccaagggc tcagctgttg ctaaacaat ttttttagca aaactaactt 120
gaaagctacg aaggggtgctt tagaacaag tttgaaggaa gctcctctag tggacctgga 180
cgctattaat aaaaggaaat agaagaggct aggcaaacc attgctgatg aagaccaata 240
tctaaacaac tttggtctta cagaagattc agaagattat agctaagcaa tagaaaagaa 300
aaaagaccaa aaaataatca caaaaagaag aagaagaaaa tgaacttatt gctanggagc 360
acgggatgaa gagaagacat gagaatgttg cgtctac 397

<210> 20691

<211> 455

<212> DNA

<213> Glycine max

<400> 20691

agttgctcat gcattgcagg cactgcagct agtaccaggg atcctatcag ccgacctgcc 60
tgctgcagct tttcattttc ccagctcatt gtgaacactg aacatgatat ctggcatctg 120

ggcgtattac tccggttctac tagaactgct gatctggcta atgactgact gacgaatcaa 180
 tggttactgt agcgggtgaga tggtgacaaa gtctttgact ctctcgagct atgagcttgc 240
 ctctatgact gtctagtaac acagatctag caagatagca acgccaactc ccgagttgct 300
 catgctatgg ctctggtagt gacggcaaag cattcgcaaa gcgctcattg ctaatgactc 360
 ccgtgagact gtgtcatatg cacaagaggg atgtgtcttg atggaaaact gggatatctg 420
 ttactagtgt aggaaatata ttatgagaca cattg 455

<210> 20692
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20692

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 ggatatgtgt ttcattttcg ctcttggtta acaatcattt tctccaact caactgctcg 120
 tggctttagt aaaactagaa gtgttagttg gagattgcat ttgtcaaag ttgcaatttt 180
 ttgtttgcct ttatgtttgg aatttaagtt cctagatact gtttgcgga atgggacagg 240
 atcttggtga ttgttcgatc cctctttctc caaataaaat attgcctctt tggaagtatc 300
 atttggtgtc ttatttgcca ngcgttacta agttaaggga atttgtttct ttactggctt 360
 ttctaaatca atacagctgc cgagtaatgt gaataagatg taagttgctt cat 413

<210> 20693
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20693

agcttggttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
 cgtcgaagaa cggttganat ctttgcaaaa ttcctcacgg aaaacgttac ggaaacgttt 120
 cggaagcgcc tcggcttaga ttntcttcac ggaacatat tttccaagca aattcgaaag 180
 agagagaagt gcctaaggg ctgacccctt ccttcttgcc ttcctccct atttatagca 240
 aaatagggga ggtggttgcc gccagctcg ccaggcgag ctcagctcg ccaggcgagc 300

aggggttgctt cctccagaag caaccgcctt ctggaggaat attccggagg gcccaagtgg 360
gcctgggtgc tatntgcacc cccattttta ctaagtacac cccctctag ctgtttttgg 420
tgattctttt ttcgtaa 437

<210> 20694
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20694

gatgaatcaa gattgattca aagagtnttg atgatttttc tagatgactg accttttttc 60
tcaaaaggca agagcacttc atgataaaaa agactgatga tctccagaat caaaaaatgg 120
gttcaagaat gaattcagaa cacttcaagg gtccaatgga aatttgattt ccagaatcaa 180
gaattaaggt tccagaattc aggtcccaga atccatatct agaatccaga atccagagaa 240
gaccttatcc agaatantat ctgccagctc ccctaactga gttgacatga attttctcga 300
accttttacc agacttttag tctctgggat cgata 335

<210> 20695
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20695

ttctttttct gcaccaaagc cctttntcta taaatagcca tgcaagggga gaggttaaga 60
ggtcagaact aaagaaggag aggaggaaac acaaaaagag aaagagaaga agaaaaaaaa 120
gcaaagctga ggcgttgcca aatcgcaacc gtggatcatt ccctacatca tttctctcgc 180
tagccttgta cccacgcaa cagtcgatta gtttttctta agagttgaat gtaatctatg 240
tacccttata ggccctctgt gatattatgt gtgtatttat cttctcccct ttatcgttgg 300
taatttcgct tcattcgtaa ggcttaattc tagtcgatca ctagtgtcat gaaatttggt 360
ttttagttag actggangga ataaacaaac caaatgaaa aaaaatcatt ctaactattg 420
atcgagt 427

<210> 20696

<211> 301
 <212> DNA
 <213> Glycine max

<400> 20696

cacagagtgg tacctggaga tatgtcgcgg gggtaagag accttgggga cgtcaggtgg 60
 ggtgctattg cccaaaacca agcttgacca atccccaccc aaccggggca taatcggtca 120
 gtgagaacct gtgatgtacc taagcaggcg aactcctggc agtcaacaga taaaaggaaa 180
 acaagaccac aaagcaagga ccttgtgggg ctggccagct gtgaattttg tgtaatatgt 240
 ggattggggc ctctggtaat cgattaccaa aggtgagtaa tcgatacaag gcttaaaatt 300
 g 301

<210> 20697
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20697

ttcttgtatg attatggggg acccatcaca tgttgtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tggtgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatact cgttcctctc aacaccgggt 180
 ccccatcaat cctcccaagc tttcccaaca tccaagtaat tcaacaatca aacaacacaa 240
 actatcacag ccaagaaaac agggcaaagg cagaanactc tgcccaaaac accaaccaaa 300
 atcacagctt ttctcactta aagaccccag taaca 335

<210> 20698
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20698

tagctagata gattgtccaa gatggaagat acttttaact attttatgca tgtatccatc 60
 tcaaaccaaa agaacattga tgcttctatt aaaaatctag aggtttaagt gggacaattg 120
 gcaaaacaaa tgtctgagca tgaaagtgga tccttctcag caaccacaaa agtcaaccac 180

agaaaacaat gtaaggcagc tacaactaag aggggggcag tagttggttt gaagaacgaa 240
 agttantttc gcgagaaaag acaaatgaag agttgtaaaa atgagtgatg aaaaagaagt 300
 agtcgaaaga gagaaacaaa atgaagtatt agctaaagag atggagaacg aatgagtga 360
 agtggaggag cataaatnga agaaaacaac atctaacaaa ggcaaagttg tactagatca 420
 tccaccaatt caacatct 438

<210> 20699
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20699

ttgcttggtta actaaatgag ctaagttata ttntaatata attatattca ttagttcat 60
 gataaagaat taattntact cacaatattt gtgtgtttaca cgtacatatt aaaggtgggg 120
 caggagagga gaggaaactt acaaaagaat aaattaccat atgtttataa aatataatta 180
 acttatttca agttttctat aatttataac gacaatttaa tcttattcgg ttttttaaat 240
 atagaaatga tttatataaa aacatgtata tatgataaac attaagtgtt taattaaact 300
 atntatctaa gcacataaac atcaaantta aaaaataatt aacctttaaa atcaaccgat 360
 tac 363

<210> 20700
 <211> 349
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20700

tccactccag ttccattcg agtacctaag ggttttgant ttcaaactgt aaaaaccaga 60
 atacacaata cccttaagct aactgacaaa caatttttgg atgaaattta ctaccggcag 120
 cctttcacat atgcaagtaa tcaattttgg tttcaatgta tgcaattgaa agatgatgct 180
 gatgttaaca caatgttaat gggtaatcat gaattttcgt ttgttggtct gattgagtta 240
 ttatgtancc tactacaccc cacatggtat tttaaactta cttcaagcta ctatgatccc 300
 tacttatgat gccctgctat attacaatgg gaagtggaac atgtcatgc 349

<210> 20701
 <211> 388
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20701

ttcttttctct tgaggaggga aggatatttg cagctaataa acaactctct taactatttg 60
 nccttcccca aactggccaa acggacaann taagactaaa tacaatgact aatgcaaact 120
 gtccgcaaga gtcattgcat tcagtctcat acggaaatct aatgttcact caccatgaac 180
 aacaattgtt tatgtagcan ataacagtga tcacatacaa caacatacag aagggtcatat 240
 tctattacag acaaatatag acatcagcag ttgtttatgt aactaatgtc atatgctgtg 300
 tctcaagggt gcttatgctc ctatattgta gttgggtata tgtgtgtgag tatgtatcat 360
 gaggatgtgt gagtgttgat attaacta 388

<210> 20702
 <211> 428
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20702

aagaccagac tatatgaggg atccnacatg tggtatagtt attatcttaa gggctaccgc 60
 ggctacgagc tngcaagact aagaaaactc gtcacaaaga cgacatcctg aagttgatga 120
 ataatgcctc atggaatagg gaagaaaaaa aaaggagaa gaacgggtcct ataccgcctc 180
 aactacccca agaagaagat gaggaagaaa acccgggtga accaccttaa cctgcatcac 240
 aacgacatga atacgcgcta ccgaccaga gtctacgtca agacgagtaa gagcattggt 300
 ggacaaaacg aaaccctgac catggcctac tggaacctgt aacctggaaa agcgacaagc 360
 ggaacactgg ccaggcaatg gataaatatc caaagacgac aaagcatact gggaagagac 420
 agcccccg 428

<210> 20703
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20703

tgcttataac ctccatgaga gaaagcagag tgaagcttgt gagagtcgtg agtggagcgt 60
caagttagag ttgtgagatt agggaggcat gagtcgcaag agcctgagag cgagagtcgg 120
tggggggagag gaaattcaaa ttcttagttt ttaaagagaa ttgaaattc tcctatttga 180
actaattaaa attccttata caaataccag aattttaatt gctccttaaa cttntatcc 240
aaacagctta ttttacgggt gagtatttta aattcttcaa aaaaatgaat taccctattt 300
aattccccca tccaattgca gggtaaagga nagttacatt cttttatcaa acaaaagaaa 360
ttttgaggaa ggagtggagt atcata 386

<210> 20704
<211> 436
<212> DNA
<213> Glycine max

<400> 20704
tagcaaatgg acctgggtat tgctcagttt cattatatct tccgtaatac tcatcacctc 60
tatcatatct aataattttt atatttatgt ctaattgccc ttttacttca ttgtagtaaa 120
tttctaaggc atccattgcc taagaaatct cgggcagtaa gtagacataa ctgtaacgtg 180
aataatcatc aataatggtg ataaagtatc attcctttcc gaaagaacta acatcaaaag 240
gtccacaaat tcaatatcac aatttcaaga agctgagtg c ttcttgtagc tcttttcttt 300
gtatgttttg cttgttttcc cttaatacaa cccacataaa tatttagatc cgtaaaatct 360
agataaggaa gaatttcatt ctttattaat atttccatcc tttctctaga aatgtgacct 420
aaacgtttat gccaca 436

<210> 20705
<211> 302
<212> DNA
<213> Glycine max

<400> 20705
agctttttcca aagaagatgg tgtcatccgc aaactggaga atattcactg cgaccttggt 60
cttccccacc ataaagctgt gaaataagtt tcttgacact gcttccctca tcaatcctgt 120
taacccttca gcaaccaaga caaataataa agggggccaag ggatccccctt gtctcaatcc 180

tctttgaggc ttaaattcat cagttgggct tccatttaca aggatagata ttgaggctga 240
 tgtgaggcat cctttaaccc aaccaatcca cctttcatga aacccattc ttctcatcat 300
 at 302

<210> 20706
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20706

tttgtcatca cctaanaaag ccatttttaa ggtctaactg cttgaaatgg tcttttccgc 60
 ttttattcgt taaatgtaga tttctaaaag gcctaaaatc aacatgtagc tttattacct 120
 ctttcaaaaa taaagagatc atgaatgggc caatgcctta atgttctctc tattttcaaa 180
 aagaatcgaa agattgttta atgggtccat gccttaaagt acctttcatt caataaaaac 240
 atacttgac aaaggataaa aaataactta accaacgctt agttctcaaa gaactaagta 300
 ggtctgattt ccttatcaca attgaggaat atgtangagc aagggaaaca cctcgtcga 360
 ccacaaaaag ataaaaata taaaagacat tggaaataac ataaaattga tgtcatattt 420
 gcacat 426

<210> 20707
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20707

agggaaacgca aaagaacggc gggaagaaaa aggggaaccc ccccgaggat gtcagagct 60
 gcaaccanag cggggcaaag cacggaaaaa cacttcattc ttacaccga gaggaaggg 120
 aaacaaagag cagaagccga aaaaagagga aaacagaaa acgaaaagga cggaagaggg 180
 aggaaaaagg cacggaacga aaacgaaggg cggaagaaga gagaaaagga ggcacacgag 240
 caggagacgg aggaagaaca gaggaggcgc gggggagagg ggaggcgga gcgaaaaaga 300
 cgaaggaata cgagggggaa gcaagaaacg cggcggggca agagaaaggg gggggaacaa 360
 ggggaacaac gaagcaag 378

<210> 20708
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20708

gatgacttga ctgagacntg aaaacaccan taanaattct cacctacaat cccactttta 60
 aattttatatt ttgacagggg atccgcgggg gaatttcctt cccctgcaca acggtccaca 120
 cactagttgt gagctgccag agacgggtaca aatctgattg tacagcatct ctctcaggat 180
 ttgtgtacac aacgggggaga ctacgacggg ttatcgaaat aaaaaaaaa cccccggttt 240
 tgaatttaac tattctgggg gaaagaatcc ctatggctct ccccttgagg ttacctgta 300
 ctgatactat ctatgctgat attgtaatag tggccctatg ggtatatgct tgtg 354

<210> 20709
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20709

agcttgtatg taaactatat gccttggtta acctggtaac ccaattggcc atgaataaaa 60
 aatctgcaact tgtcgccata ctctatggtt tatgctcctc tgttgaccac cacacagacc 120
 tttgcccttc tgtgcagcaa tctaaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180
 tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240
 tttccagcaa cagatagaat cctgngtgga ggaatcatcc caaccttaga tggtcgaatc 300
 cttcacaaca acagcaacaa caacaacatc cttattttca gaatgttggt ggccctagca 360
 gaaccatacg ttctccacct atccagtagc aataacaaca acagcaacag 410

<210> 20710
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20710

ntataagcgc aggtcaagtg gtcgcaatat gcgaagatga tgtccaagt acattgtatt 60
 tggtaacgacc atgccctcct gatttccagc tgggaaattg gcgagtggag gaacgcctcg 120
 gcatttacgc aacgagcata atgtaaacct ttacggtttt aaaagctcta tagttgggcc 180
 taggcttttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg aatttataat 240
 acaaggatct ttcttctctg ttctacgtct ctaccattc tcattcattt gcatgtttac 300
 ttctttttct gaaacggcag atccgatgac gagtcccccg aaggtaactaa tacctgggac 360
 ccgcctatcg acttcgagca agaaatgagt caaacggaag atgaaagaaa cgaggatgtg 420
 gga 423

<210> 20711
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20711

agctttataa ttctctatag ataacaatca cccttgagca atccctaate atgtgaagaa 60
 atgactcctt aatcgctcca cacctgcaac aagaaagggtt agaagataaa tgctggttaa 120
 cacgaaaaga aattgtaggg aggctgccat ggaaggcaag tcaaaggaag aatttgacan 180
 ttttaggtaa aggaggcttc caaacacaag accagttcac tagaaaagaa gaatgaatgg 240
 caggctctcg gattaaccac tcgaaggcat atttagttga aaagcaccct aaactagatg 300
 ggttccatat aattntgtca agcatatgaa taacaagtgt ggtactcatc attttgagtc 360
 taatattant tggtagagtt gataaacagt gtcccaattc actgcctca atggaatgta 420
 ttatgc 426

<210> 20712
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20712

actaagctat aagtataaat ttttttttat tatagtaaaa ttttaattta actaattatc 60
 tgcgataata aacttataac ctgttaatat attaggctct accgatataa gacttagttc 120

acatattttc atcttcctct catgctttta ataacaataa ttttgatttt tataaattat 180
 attttgattc acatcaattg ttttctcaat tgtgtctaaa cctattgctt catgtaaaga 240
 aaagttagag ttaccacaag tctgataggt tatacaaata nacctgttgc tttatgtaaa 300
 gaaaagttag agttatatca aagttttgat aggttataca aataacgcct attatTTTTT 360
 catgtatgag atatgagata agaacgagtc tattaatagg ttatacaaac tttnttcattg 420
 tataccaacg ttctatgaga ta 442

<210> 20713
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 20713

agcttttaac tcgcagagac taacgtcgtc ttttgcgcc ttcgtcaatc gcggccgaca 60
 agcccggtga cagcgagaga tttatgtcat cttccgcgtt tacaagatct gtcatactga 120
 gttctgagtc acgctgacgg gcggaaatac ccgagtgggt atccgtataa actttttgtt 180
 gggtgtaaga cgaaaagcct ggtagcacgc agagactaac gtcgtcttct gcgcccttcg 240
 tcaatcgagg ccgacaagcc cgtttactcg cggatgatcta cgtcatcttc cgtgctcaca 300
 agatctgtca taagtacttt tgagtcacgc tgacggggcg aaataccga gtggttatcc 360
 gtatacattt tttgcattct gtaagacgaa aagcttgata acacgcagag actaacgtcg 420
 tc 442

<210> 20714
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 20714

atgcaaaagt tatacggata acctctctgg tattttcgcc tctcagcgtg actgcaaagt 60
 cagtatgaca gatcttttga gcaagggaaga tgacctatat taccgcgtgt aaacgggctt 120
 gtcagccgtg attgacgaat ggcgagagg accacgttag tctctacgtg ctatcaagct 180
 tttcgtctta cagaacacaa aaagggttatt cgggtaacca ctgggttatt ttcggccatc 240
 cgccgcaccc cagctcacat gacagatctt gtgagcgcgg aagattacgt acatcttcac 300

<210> 20715
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 20715

agcttttccc taatagagtg ctttggataa gaagcttaga gaggaagctt caatggagga 60
 agagaatgag agagagagag agagagagag tccggggggg ggggtgcgaa ttgatggaaa 120
 ttacggagag aagttgaact ttgaagtgtg tctcacaagt ttctcatcca tcaaagttat 180
 gacaagtgtt acacatgttt ctatttatag cctagcacat gggaaacttc cttgagaagc 240
 aaggaatgta gctctcttgg gaagctagag gaagaaagct 280

<210> 20716
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20716

tactcaagct tgcttgcgga gcttctatgg aagctggatc tttgagcttt ttgatgttct 60
 tcaatggtga tttttcacca tagagatgca gcggaaggca aaggagaaga ggagagggga 120
 ggcaccatcc actatggaat aagccaagga agaaagagct tcaccaccaa aaattgcctt 180
 ggataagaag cttgaagagg atgctttaat ggaggaaaag aaagagagaa ggggggagca 240
 cgaaattcaa ggaataaaaag agggagtaac tggactttga agtatgtctc acaagactct 300
 cattcatcaa aggtacaaca agtgttacac atgcttctat atatagacta ngtagcttcc 360
 ttgagaagct ttcttaaaaa aacttccttg agaagcttct ttgagaaaac t 411

<210> 20717
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20717

agctttgttt gttttgtgat tctagagaga gaaaggtcca agttccagag agttttgaga 60

gattttgctg tgtgaagatc tacagagacc agagcttgaa gcggaagccg ttttgagagc 120
 ttgagatgag tttgtgagtg gttgtgagat cctagagggtg aaggagacat cctcacaact 180
 tgtaattttg caatctttca tcttgttctt ttctttgttg taaaggaggc ttcccgggta 240
 tggaaagcta aaatcctctg ttggatcttc cttgtaagta cttgatgtaa atatcttact 300
 atctatctaa tgatgtttta tgtgttcttt gtgctatcag cttttcattc tagtatgcct 360
 ttaccttgat catatagatg catgctntgg taggggcatt caacagtgga nactgggctg 420
 attctgatga ccttga 436

<210> 20718
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20718

gaaatttgca aattgtttca gaaatttatt tagtctctgg taatnganca catcctctgg 60
 taatcgatta ccagagagga aatagcatag ttttgaaaag ataattgttc ttaaaatttt 120
 tttgtaaaat atttccttta gccaaacctg tgcagcatca attaaggaat tctttctaag 180
 atcctatcaa ctaagtatat cgttcttctt gcatttctga attcttgact tgaatcgcg 240
 tttctttgga tcatcaaaac ttcatatcat atatgcttct acaatctccc ctttttgatg 300
 atgacaataa tctaaaatca agataaacga tacaccattg ataatgcgtg ctcaaaccc 360
 ttacaccccc ttaagattga agattatgcc taagtctctt cnccttttg taacatcaaa 420
 aag 423

<210> 20719
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 20719

tttctttttt gttagagtca gaagtgctaa tgacaaatac ttataagttt gagaatttag 60
 tgaaacttga tacgttatca agaaccggac gtagtctcag tgatagaaat gaactaatat 120
 aaaacttcat atgtctaata tttatctttg tgtgcatctt atctgacctt gggattgaat 180
 ttgattttgt tttgaaaatc tgctttgata acatctatct caattgtctc gctatgtttg 240

gttgagaaaa tccattatTT gtctctcaaa gttatTTTca gatggtaagt tgtgtgTTtg 300
 caacaaagtt taataaaatt ttaaaatcac aattcaatct cttcttgCGa tattgcctta 360
 catataacat gttcattatg cttttatatt gtcagtatct cacatataat ttactagcac 420
 tatga 425

<210> 20720
 <211> 567
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20720

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 anacnaaann naagggcgag gtttgaacct tgagacantc gcananacgn gacaccatan 120
 aanacccaag cccgctgcac cattgacaga attaaccaaa aattttacct cttttggaca 180
 ccagaggcag agacaaccat ctgtcaattg cacaaagtca tgactctcac tccagcgcta 240
 gctcttccca atttccagct gcccttcatt ctggaaacta atgctaacga cactgggtata 300
 ggagcagtac tacatcagaa tggccatcca ataacatTTt tgttcaagaa acttgcacct 360
 agagtggaaa agaaatctga cgcccccaac agatgctagc aattgttgaa gctatagcta 420
 aaatcaaaca ctacctgctg ggacacaaat ttattaacaa aactgatcaa aaagcttgag 480
 aacaatgacg gaacaacccc tacagacacc ctgacaacaa cagtggtaac acaagttttg 540
 tgaaataatt ggcgactgac acaaggc 567

<210> 20721
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20721

tcttaccact atttactgat gaatactgta gccaatgatg cgcatatcgg atatggctga 60
 catgcacaat attgcatttn cgcgtggaaa attgtgaact aggacggtct gaggctacga 120
 gactgaatac aatactgtag ttcccccttt gttacacgat cttttgcgat gctggtgCGc 180
 ccctaaatgt catctgctcg aactgaacag tgccgtgaat gatgataaac cattttataa 240

caggatatccc tggctgatac aacaagtgct gaaaatcgta atccgacacg caatgatggg 300
 ttccacacat aggatacatt catttttgcg gctagcgctg caatgactgc tgctcggtacc 360
 ttgctgttgt tacaccaaata aacgctaagc aaatatctga cgcacatcgg gaaaccc 417

<210> 20722
 <211> 554
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20722

acgcacacac gacgcgcgca caacgtacac gtgagacgat ataaagaggt gagataactca 60
 ttattantgn acaaaaaanaa ganaggagga atgagncttg agaccctga aacnccgtga 120
 caccacanna nactnaagct tgggagttgc tcaaacaagt tgagcctttt agagctctta 180
 gctttggnac acaagtgcaa caagagatgt aactacttta tgccccaaaa aattaccagt 240
 gttaaaactg attccttcat ttgctcattg caggaagggg ggcctacaac attttccttg 300
 aaggactttc ttaaaagtca aagacaagaa gtaaataatcc acctagacgc tggggaaaga 360
 acatgtgtac attgtgccgc cccgcacac accggactgg tgcattgatg atttgatcac 420
 tagtgaaaag gtgccatcga aacttccgca caattattgg gaacagacta caagactttc 480
 gggacaactg cagtattacg aatagggtac ataaaacgga gaaaatcgaa ttctatcaaa 540
 tacacaatat ttcg 554

<210> 20723
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20723

tatcttattt tccgatcgcg accctctgtt catcagtgga ttctggcagg agctntttta 60
 gctcagcggc actcaccttc gtatgagttc agcctaccat ccacaaagtg atggtcagac 120
 tgagggttatg aatagagtaa ttgagcagta tttgcgcgct tttgttcacc gtcggcccg 180
 aaattggcgt aaatacttac cctggattga gctctcacac aacacttcat ggaattccgg 240
 cacaggttcc acgccttatg agattacatt tggacgataa ccttcttcat taccggaata 300

catctcggga acttcanaat ttgatgctgt ggacgaatct ttatacaccg agaggaagtg 360
 ttcattgcat tcgtagaaat t 381

<210> 20724
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 20724

tccgcttgct gaagatgtgg acaaataatc actatctggt tctgatttat aaacatcaag 60
 tcttgatta tctatgatag tttcctcttt ctttgactca ccaccaccat tcatctcaca 120
 gatgaagaat ggtgaagttc cttgatcaga gcttgaaacc gaagaagtac cagcttccat 180
 tgtagtaaat ggtgtcccta gctcacggct gctagttgga gtgacaactg gtccttttat 240
 agaatttaaa gaatccccct ctcttcctct cgtttccaag cattctaatt tgttcagaaa 300
 gtaatggaca taattcttca caatccctct tttgtgttca accaaattca agcggagtac 360
 ctagtggttg gaatgcttat aaccacgatg tgcaactgcag tcttctctgca ttgttttctc 420
 at 422

<210> 20725
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20725

tatctttgct tttcaaagct tacagaataa tgacttanaa cgtagccaaa tacacggctt 60
 aaaataaaag ataataataa tctaaatcta ggaaggtggt ggaaggtcga agcaccgacg 120
 aagataactc acatcctctt caagctgagt gatgcgggca tccattcctt caaagcgagc 180
 atcaatggca tctatgcgac catccaacga atcaaagcat tcgccatcat gcatgacggc 240
 tgaggaatca tctcgttgag gcggaggaga gggagtatgt tcgtcttgcg gaggttgcg 300
 gttcttcttc aaccattgcc catgcatgtc caccgtag 338

<210> 20726
 <211> 411
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20726

tgacttgagt catcaagaga ttatacaata tgttgacaca tgtcnctgag tttcaacaat 60
tatcaatcat ggttgaatca tctatctttc aatctatctt tcaatatctt ctttcatctc 120
tttaaactct ttctataaaa atttctgatt catttctcct catctttcta aaagtttttt 180
tgttcaaata ctttctcttt caagaaaagt tctttgatca aaaacttggtg ctattcatct 240
ttttcattct ctccctcttt ccaacagaat gaaggactaa ccgcctgaat tcttttctat 300
ctgccttctc cctttccaag agaattcaaa ggactccgtc tgagaattct attgattctt 360
ccctttccct taaacaaaat atttcaaagg actaaccgcc ctcaatatct t 411

<210> 20727

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20727

tgcttgact ttccagtgat ggaatgaatc catatggcag tttaagcact caacacagtt 60
catggcctat tttgctagta atttaaaact tgtctccttg gttgtgcatg aagcaaaaat 120
gcatgatgtt atctatgatg atatcaagcc caagacaact aggaaaggac attgatattt 180
atctcagtcc cttgattgaa gacttgacaa agttgtggga caaggggggtt actgtgtttg 240
atggtatcaa aataagacat ttaagttgcg tgcaatgcta tttcgtacca ttaatgactt 300
tccagcatag gagaatntga gtggatatag tgtaagggc catcatgcat gctctatata 360
tgaagaagac acaagccatg tacaattgna catggaagaa aatatatata ctcggcattg 420
cattttcta 429

<210> 20728

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20728

tcattaagag gcttcctcca gaagcttcat taagagactt ctatcattct ccatacatct 60

tttcaaagat cccaacgggc agatcatgga caagtgtctt gtgaagttgg agaccaaatt 120
 ttgaaaagat ccaacgatta aagaaggctg ggcagaattt ttaccgagge agcttcatgt 180
 agctttctct agaagcttca ttaagaggct ttctctagaa gcttctctgt ggcttctttg 240
 agaagctaga tcttatcttc cacacccctc tattaactaa attaacttcc ttaaaaataa 300
 ttacggatga gaataacgca acaaataatc taacatcaaa cataattact aataatatat 360
 agatatatat atcagggtgt tacacagnca atatcggncc ttctcattac tcatcaccca 420
 atca 424

<210> 20729
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20729

tgcttctaatt ttatatTTTT agaccaaatt tcaattatta acatttaggc cattaatgag 60
 tcaaccatta ttgattaga gatttttctc ggaactattc taattcttcc taaactntag 120
 ctttaaaaact taagagggtta accatggtaa ggtatcctat ggtaacatct cattntctac 180
 catttcaata gcctaaaaac actacccaat tacacaacaa aaaaataaca ttgtctacca 240
 cacacacatg gaaaattgga atgttatagt tgacataagt atctcatgat ttcttcatcg 300
 gtgggtgtctt caagtgttcc atcaacaata tgttgtcaaa ctatatcgaa gttagaagtt 360
 caagtcattt tatgagttag 380

<210> 20730
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20730

taggaaggag gattggctgt ttgcttacta gttgcaccca tttggatagg taggaaaccg 60
 tagaatccct tgaacctaa tgagagttat gattcagtat accgaagaag gaagatcatg 120
 ttgaagtctt gaaacgtata cctcttttct ttaatcgtct catgtttgag aaagagtcga 180
 ccatgtgggc aatcgtgttt ccttatgcct gtttgttcat ttagattgca ttagtgtctc 240

ctatgatatt acccaactcc aaatagtatg tcattcacat tntattatct ttgagatggt 300
 actctcatga gaaaacttga cttatgaaat actaccattg agaaagcgaa aatcgtcaaa 360
 cttagtcatt aagtgcanaag gagtcttaag gtcgaagtca ctg 403

<210> 20731
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20731

agctttacaa caccaagca atacaaaatc caaacatcat gaactatcaa aaccaagaaa 60
 acagggcaaa ggcagaaaac tctgccccaa aacacaaacc aataccacag ctttccttac 120
 tcaaataccc cagtaacatt ctcttcgttc caattcgta accgttggat cgactcgaaa 180
 attttactgg aggtccctag tacataaatc tacattgtgg ccattgggat ctgctagaaa 240
 acgtccagaa cccaatctgt actactctnt ccacaaccag caaatacaca tcattntctg 300
 cacaagcca aaattctgct gcacatttca ccagcanaat tctgcataat agtgaagatt 360
 tcgaaatcac acttgccctc g 381

<210> 20732
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 20732

gtatttggtg gtataatttg cctgttccat taggttctta atgtctttag aggttatttc 60
 ctcatgaca tcttttgtct tgaatggaat tgccatgaca gggttattgt tactgtcttt 120
 gatgtttggt agttgatatt gtgttgctgg aggttaattcc gattggatta actcactatc 180
 cttcacttgc caatttgta tgacatttgt tgttggatca cctatgatgt cttgttccaa 240
 cggatatctat atcctttctg atggcataag catgaaacca atcaaagaaa aggacattaa 300
 ttttgactct ttcgacaaat tcgtagaact tgtcttggat ttgttttctg tttgtaccct 360
 tgtaatgttg gaaaaaccat ctcttttggg gttcattctc cggagaataa aatctttcc 419

<210> 20733

<211> 416
 <212> DNA
 <213> Glycine max

 <400> 20733

 acctcggtgg taaaaggtat gagcatttga atttctcgag agcttccatt ttttaatttc 60
 aaacgtctcg atatattatg cgcccgaatc ggacatccgt gtgaaaaatt atgaccaata 120
 gaatttctcg agagcttacg ttggtcattc tcgagagcct ctatatagga tgcgcctgaa 180
 tcggacatcc gagttaaag ttatgactat ttgaatttct caagagcttc cgttgcccaa 240
 ttatgagcgt ctcgatatgt gattcgcattg aatcggacat cctgtgtgaaa aggtatgact 300
 atttgaattt cacaagagct tccgttgctc aattttgatc ggctcgatat gtgattcgcc 360
 cgaatcgaac attcgtgtga aaaggtatga acatttgaat ttctcgagag cttccg 416

<210> 20734
 <211> 202
 <212> DNA
 <213> Glycine max

 <400> 20734

 agctcgcgac gctattgacg agtgccgtga tatagatgcg cctgaagtag acatacgagt 60
 gacaagctct gaccgtttgg atgattttac aagttcctat gattaagtag gagegtgccc 120
 atctgatata cacctgagaa atacctcagt ggaagaacgc ctgagcattt gcacttcttg 180
 cgagctgtcg acgttcaactg tt 202

<210> 20735
 <211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20735

 agctttgttg cttatgtgcc caaaccataa ctttgatgat gctgcatagc tgcatatcat 60
 ttatagcggg ttgaaacctc aaaacaagat gatccttgat gcctcaacta gaggcattat 120
 gatgtccaag agttcagagg aagccatagt aatcattgac tccaaagtag ccagtgatta 180
 tcanagtcac catgatagag ctccaactca aagaaaaggt ataacagaag tggacactca 240
 aaatgcaatt ctagcacana acanactctt gacgcaacaa atngaggcct taacaaagca 300

gataggccaa ctccctcagc aatatcacca aggtggacca cagaaaacac aacaagttca 360
 ccaagttcaa canatthttga gaatgcaatt ttgcggaggt aaccatcaga atgaccacta 420
 tntagtagct ggtgacgaac aac 443

<210> 20736
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20736

tcctcggggc catttcctgc gagaacaaac attttaaagt tatttntaca agataatgct 60
 tatcttaacg caaaaaatgt catgctaacc tctctgattt tagaacgaac tgaccctca 120
 cccagaaaca gctgaaacac gtatgtgtgg aatatcctac tatttatatc aacatagagg 180
 ccatccaaca cattctaatt gtcatacata tatgcatttg aaaagaacat acattctcac 240
 gcccaaggca ttgcgtcaaa ctccacttaa tttatatact aaacatttgc tatttagaaa 300
 ctacctacat atgtttgaaa tatatatcat acaaattttt attgtttcac tcgcatttat 360
 tcatattggc aagctattta cattatgcac acacttgcac tcaaaaggga atttcgtgct 420
 atcatacatt cat 433

<210> 20737
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20737

agcttgtcta cttccttctt cactacatca agaactcactg ggttgagtct tctctgtggc 60
 tgtcttactg gtttagcccc atcctctana tttatctaata gcatacatgt ggatgggcta 120
 ataccaggaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaattgat 180
 aaaaacttct cctcttgctc atcaacaagg gagggcaata taattactgg aaaacgtttg 240
 ctatcatcca agtaagcata ttttanattt gatggcagag gcttcaattc tgggtgtgggc 300
 gggttgataa tggtagaagg agatggtnct tcagcctgta cctcataaag acagtcagag 360
 gtatgtgtac ttcttgaaac atggctagtt ctatcagact ctacgacacc tactctacg 419

<210> 20738
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20738

taggctaaat taggctaaaa ttntgtaagc tacttgagct gtttctagtc ttacatgagg 60
 gatctgcgga cgaaactcag tttaagttag tctaaaccta agagggctat ctaaactcggg 120
 tgtagcctta aatgaaggat ctgcggacga agcttggata ttccgcctga cgaaggattg 180
 aggggttagt aatttaggct gcaacataaa acacaagagc atgattgatt agagaaatat 240
 atttctatgc atcagcgatt tgtagaaaaga cccaacatat ctacctactg ttgtcattnt 300
 atttaccttg cattttatna gttttagcat acaagtttag tttagaattt gtttgaaatt 360
 atcacttata catgttctct caacaatgct tcgattctga acttaattca nggtaacatt 420
 agttccctgt gtcaatactc 440

<210> 20739
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20739

agctttatntt attctntntt tattaggnta gatgaattct taaaagaaat taattgaaac 60
 aaatgacgat taacttcaac tgaaagtcaa gaaaaatggg caaaaaggaa aacttacgct 120
 atttatttga gaaaagcggt aaccgaaat ttgtatggac caaaactgct atgccccaaa 180
 tacaataaat gatagggaaa atgcattatt tttatatata tataatgaca ttggtgcaaa 240
 ctaacttctt tnttatgatt aattnttatt aaaaaatgat gtggattgac cactttatta 300
 atactcanat tgaaaacatt acttaaggac atgaaatgta gttcaacttc aaccaacaat 360
 atgttgcagc agggataatg catttgtatc ttaaataacc attntatata atttcaaagc 420
 tggatttcag gaagagttaa tt 442

<210> 20740
 <211> 415

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20740

aactcaagct tgtccacaaa aataggttnt tgaagtttgt aatttaaatt tctcactatt 60
 tataatggat cattttcaag gtccaacgcc ttataatgat cacctcttaa agtaaaaaag 120
 aatcacttga taagaaagaa ctacgtaggt ctgatttcct catcgcaatt gaggaatacg 180
 taggagcaaa gggaaacacc cttgtcaacc acaaaaagag aaaaatataa aaaggggtata 240
 aaagatataa agacataaaa agggaaact caatcaagtc atgtntgcac attcgatcaa 300
 aggtgccgt cccttgggac ggacgtgtgg ggtgctaata cttccccgt gcgtaaatac 360
 aactcccgaa ctttctactt aaaagttcgt agatcngcgt ctttcggttt ttccg 415

<210> 20741
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20741

ttcttattga ggagaggcgc aagaccactc aagaaaaaga tttactgctg cggcaggagg 60
 aactagacaa tttgttggtc aggtacttca ctntctatct ctctctgctg agtggttttt 120
 ctctctgcag aatttctcan atttctcaaa tttctccatt ggggtgttcat tcatggcttt 180
 tggaagatgc aataagcaat aaatatctac ttatctgatt gagttttttt acatgggtgt 240
 ataacccaac ccaatggcat agtgtgcaaa cagattttnt cttttttttt ttganagtaa 300
 aaaaatgtta caatgtgaaa aatgttagct acacttttta tgcacaaaaa attaanaaaa 360
 tgtatcaaaa tttttataat aactcataag ctccacttaa tc 402

<210> 20742
 <211> 520
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20742

caccacata natacgccaa cagcccaccg cggattaaca aacaacgaca tactcacccn 60

nnncaggggg tgaatgagca tgatacnccg caanacngga ncnananaaa cncaagccct 120
 agnnganggc cgcnganggn anggaaaact attaatccat catcccgggg gacaaagaag 180
 accaggagaa aatagggggg tattgaaaca tacagcggac ttggcaaaat aaacaaattc 240
 agccactctc attataaaaa ccaatggaca atggtacacc agaccaattg cctaactaat 300
 ttccaaccct cccaaaaacc aatccaaact ctaacaacgt cattgcttta aatacctata 360
 tagcccaaga aagaaccgac aaacctttaa agactatgca aaaaagataa ttcaaacaag 420
 atattgccaa tatgagggga gctattaagc aaggaccacg aatacanaaa tggacaccac 480
 catggcaccg acaattcttc cataagggag acaacaagn 520

<210> 20743
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20743

tcattctagta gttaatttcg gggacgaaat tctaanagg gtgggagtat tgtaacatcc 60
 tggaaatttc taccgggagt ttacggaaac gatgtatttt gaatgattat atatatatat 120
 atatatatat atatataagt atatatatat atatatatat atatataaa gtattgttcc 180
 gtgtatatgt atagatatgt tcttgataga aataggaata gtgggggcaa gatacgcggg 240
 ttagactaat taaggaagag aaatccataa ctgggaggtt atgggttaat tcttaattaa 300
 ttagttaaaa atcattgttg tgcgtgcgac tntgaattta actaaaccaa cctctgaacc 360
 acgctcgngg ttntattctg agnctgttga tatatatatn gcttgctttc gaanactggc 420
 ccangcagac gct 433

<210> 20744
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20744

tctcccccat tttctataaa taggggggaga attgaagttt ataagggttc agccccctta 60
 ggcacttctc tctctctctc tcgaaataga tgaagaaaat tagttccgtg aagaaaattc 120

aagccgaggc gcttccgtaa catttccgta acgtttccgt gagtaattac tcgaagatcc 180
 tcgaccgttc ttcaagattc atcgtttggt cttcgttttc ttcagtcttc aacgggtaag 240
 tacctcaacc aagctttcat ttcattctat gtaccctggg tggccacat tttgtttcat 300
 gtatttttat ttcggttttc atttactttt tataccccct tttgacgtgc ttaagccatt 360
 tatttaagtc atttctcact tattctaana ataaaataaa tttccaccga tc 412

<210> 20745
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20745

ttctttataa cacgcagaga ctaacgtcgt cttttgcggc cttcgtcaat cgcggccgac 60
 aagcccgttg acacgcagag atttatgtca tcttccgcgc ttacaagatc tgtcactactg 120
 agttttgagt cacgctgacg ggcggaaata cccgagtggg tatccgtata aactttttgt 180
 tgtttgtaag acgaatagcc tggtagcacg cagagactaa cgtcgtcttc tgcgcccttc 240
 gtcaatcgcg gccgacaagc ccgtttacac gcggtgattt acgtcatctt ccggtgctcac 300
 aagatctgtc atactgactt ttgagtcacg ctgacgggcg gaaatacccg agtgggtatc 360
 cgtataaact ttntgcatgt ctgtagacga aaagcttgat aacacgcaga gactaacgtc 420
 gtcttttgga 430

<210> 20746
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20746

tttcgtctta cagaatgcaa aaagnttata cgtataacca tttegggtatt tccgcccgtc 60
 agcgtgactc aaaagtcagt atgacagatc ttttgagcac ggaagatgac gtaaatacacc 120
 gcgtgtaaac cggcttgctg gccgcgaatg accaatggcg cagaggacga cgtagtctc 180
 tacgtgctat caggcttttc gtcttacaga caacaaaaag tttatacga taaccactcg 240
 ggtattttcc gcgtcccgcg actcaaaagt cagtatgaca gatcttgta gcgcggaaga 300

tgacgtaa at ctccacgtgt caacgggctt tgcgggcgcg attggcgaat ggcgcagaaa 360
acgacgttag tctctgcgtg ctatcaggac tttcgactta ca 402

<210> 20747
<211> 355
<212> DNA
<213> Glycine max

<400> 20747

tgctttcagt tttatatatt attgcatgaa ccttttggtc gttgcaaatt attttgatat 60
agattacatg tattatatgt aggattaatt tggtattttt tttttcacat ttaaataatta 120
aatctaaaat tctcatctgg gatcaatacc tcacactata ggcacaatat tagttattta 180
tcaaacaaaa tattgtattt gcagatatta cgcctttggc ctctgtttct gaatgaaagg 240
caactcttac ataaaaaata aaaaaaaaaa aacttgcaat atgaatattg tgcacacttt 300
atgctaatta attttggtgc ctcattgagtt tactattctt caactgagct ttctt 355

<210> 20748
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20748

aagaacgcga ctaacacaag ataaggtgac aatatggcgg tgcaatgaaa ggcataagat 60
acatgtaagt atgaaaactt tcgtctatta aaatattact tcaacaaagt gccaaaagga 120
atataaagac tttattaaga gtgatcgatg cctataatga ttctcataca attggctctg 180
aaacttatta tttcgctctt cacaccatat attaggagct tcttacaaca tgacaacatg 240
ataaactggt atttgattgg attctcatct caatntatct ttattacttt actttactct 300
gttgggagaa ttcattgagta tggattaact atgaataggg gaacaagaaa ggcaataaag 360
aga 363

<210> 20749
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20749

agcttttctg aaacatcatc taacacatcc tttatgggag aaataacatt agactcatca 60
aaggaaacat gaatggatcc ttcaatagtc ataantctct tattgtatat tctatatgct 120
ttactatgca aggaataacc aaggaagatt ccttcatccg acttggcatc aaactttcct 180
aagtttcttt tccattatth aatacaaaac atttgcaacc aaagacatgc atatgtgaaa 240
tgtttggttt tctaccattg aataattcat aaggagtttt ctthaagatg ggtcttatta 300
aagccctatt taagatgtag catgcagtgt taacagcttc agcccanaag tattttgaaa 360
gtggagtatc atttaataag gttcttgcta tttcttctaa ngatctattn ttcctttcaa 420
caacacc 427

<210> 20750

<211> 353

<212> DNA

<213> Glycine max

<400> 20750

taaccagagt gcttttcttg tcagctttca aaagggttaga tatctcacta aaactgatta 60
aaccatcatc agaaccttta cttgggtttta caaaaggaca agttcatacc tgcgattatg 120
tggaacttga gaccaccttt ggagtaggga aattatctca aatagtgtc gtccaatata 180
tcattgttga tgcaaacaca tcatgcaata ttctcattaa acgaccttct ctggatgccc 240
ttcgggcaat gtctttaccc cacatctagc catgaaattt cccaactcca aacataatat 300
catcaccatc aaagcaaata aaaaagaagc ccaggagtgt tatgccaaaa gcc 353

<210> 20751

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20751

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aaaggaacaa ggtttgccat cttatthtga aatggctttc caaattactt atccctatth 120
tggaataact atcctaaaat atgaaaaata tgaaaatcat atthtggat aactattata 180
gaataagtaa tttagaaacc tathtcagaa tatatathct agaataaat thtcatathc 240

tgaattagtt attctggaat agggatacat ttctagaatg gtcattctgt gataaagaga 300
 gggtaatata tgaatnttta agcatttggn ggtgtagcgc aaaaaatatg gtacaggaag 360
 ccattgccca ttatgaacat aatgatgatg gatc 394

<210> 20752
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 20752

tgctgctact gtcactacac ttgcattttt gacttctcga agtgcgataa tcgtttgaac 60
 aaatattaga tgcttactaa acgggaaaaa ttggaatgct gagatagaac agaattggaa 120
 tgctagaaaag atatatccta aatgaatttt tatcaaacia tattataact aa 172

<210> 20753
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20753

agcttggttct ctcggttat gatttaaaat actttatttt aatgagtc aattgagcct 60
 ttntttttaga gggtaagtt gggctacaac ctgttttttt tataattaaa aactgccttt 120
 tttgctatgg atgccttgct gcaatccatg cttctggcat ctgccatggc actgccatac 180
 aatggcattt tcgtcaaaaa tntgcccagc cataacacca tggccgcaat ttactagcat 240
 tggttgttag ctgattcaat tatttgaatc aattgacaat tcaaaatcag cactatctta 300
 nggataatag tcctagacaa acctaatat ggcatgctag actagatcac aagtcaagca 360
 aatgttcaaa cttcaagtag acanagtaga cataactagt aatacatgga tgtcannaca 420
 gtattcctc 429

<210> 20754
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20754

taacctanat ggctcccatt ccttccctaa accacattct ttctgaattc tttagtgtct 60
 acaccttctt ggcgccaaat gaacgtcttg ctcatctctg tcttccaatt aaattaatgt 120
 aagaactaag aagggttctt ggtatactct ctctaactct aacacaacac acatgatgta 180
 ttagtattag tttaaattta gtgaaaatta taaaataaaa taaaaattca acaaatgtta 240
 agttgaatcc acagaactta tatttttaac taataataaa agaacgtgtt taaaagagct 300
 tgttggaat attttttcat gtgtaattaa atgtaggtaa ttattatata agttcattta 360
 agacattgtg ctgtttgggt tagatttaat ttaatatact gtgaatatca acttgacatt 420
 ttatTTTT 428

<210> 20755
 <211> 440
 <212> DNA
 <213> Glycine max
 <400> 20755

agcttgtag ctcatgttaa aaaaatttgc attagagagt ttctctttct tcgggtgtac 60
 attccttgc cataacaata actacattct ctgttcaatt ctgCGaact ttggtgtctt 120
 ttcactttaa ttctcgtgag tcattccgtt cttattaggt atctcaatct ctctatctga 180
 gtcatttctt atttggctct tgaatctctc tattcatcgc tgttcacttc tccgtttata 240
 atttccttta tgaacatgat aggagtgtat agggtcctaaa tttatttgta tggaaacaga 300
 tagcttatgc agcacaaaaa taatctatat atttgttatt taaacaaaat atcaaaattc 360
 caaccttagg gaaacaaata aattaactaa tcccactata atgtattaaa agcaagtaat 420
 taacttaaag ggttgaagtc 440

<210> 20756
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20756

tatcagtcaa gccatanat aaatgtggca aaatttgcca tgttataaaa ataaggctga 60
 aatgtggaat taagtctact attaataatac tatttatcta aatatataaa tacatagtgt 120

ttttttactt taaataggat atcaatttta tttttattag attcaatcat taaaaactaa 180
 tttttttaa cgggggaact ttttgatat aaaaatctat tgtagataa aaattaattc 240
 ctttaaaaaa gataacgcaa atattattat aaagtctata catatatata cattagaata 300
 taccttaaaa aatttattta ttntattatt atctaaacaa ttagtatata taaatattct 360
 acaatagaag aattccaata tataaatata tagtacatag atnntaatat atgtgtgagg 420
 taattctact ttntaaatat t 441

<210> 20757
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20757

agctttttaa gtagcatta natgtaaact aggcgaatcc taagagtgtt tggatgacca 60
 cattcaaggt tcccaacaaa acactcacta tcctaaggaa gaattgccta aaattattac 120
 acacaaatgg aattntggta acctattgga ggctcccaac acacttccat tgaaaggcct 180
 ttttgttaca aaacttgaaa gcaatgaagg taagtaaatt gcaaattaca aaattacaaa 240
 atggctcctca attntgggtg ttgttctctc tttgggtgatt cactcaattt ggagtgcctc 300
 ttagtccaat agctcttaag gtggttggtt cttttcttct tgactcanat tcttcaaggc 360
 atggcaccaa tcctccttcc aattccctat atggcaaccc acanacaagg aaacaaagag 420
 acaagcaata atc 433

<210> 20758
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20758

cttgtgcatt caatatcctg atgagggtgt tccatatggt cttatgactg ttctaataca 60
 tttgctgccc aagtttcatg gtcttgcagg tgaagatcct tataagcatc ttaaggagtt 120
 ccatattggt tgttccacca tgaaaccccc taatgtccaa gaaggtcata tctttctaaa 180
 ggcttttctt cattctttgg agggagtggc aaaagattgg ctacactacc ttgctcccaa 240

gtccattttc agcanggaca ccttaaaggg tgttcttgga gaaattcttt cttgcatcta 300
 ggaccactac catcagaaaa gacatttcag gcattaggca acttagtgga gaaagcttat 360
 atgaatactg ngtgagattc aagaaactat gtgccagttg tcctcactac cagatttctg 420
 agcagcttct cttcaata 439

<210> 20759
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20759

agcttttagnt ttatatTTta ttgnatgaac cttttggtcg ttgcatatta ttttgatata 60
 gattacatgt attatatgta ggattaattt gttatttttt ttttcacatt taaatattaa 120
 atttaaaatt ttcactctggg atcaatacct cacactatag cgacgaaatt agttatttat 180
 caaacaaaat attgtatttg cagatattag gcctttggcc tctgtttctg aatgaaaggc 240
 aactcttaca taaaaaatan aaaaaaaaaa acttgcaata tgaatattgt gcagacttta 300
 tgcntaatta atttggtgcc tcatgagttt actattcttc aactgagctt tctttttgca 360
 tgtggccaga tatgtgatgc anaagagaca attatgacta tatgacttac ggatgtcaaa 420
 aatattat 428

<210> 20760
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20760

gcttgcaagt catcatctta tccacaagaa aagggagagn ntattatttt tcttatecta 60
 aagaacgtga ctaacacaag ataagttgac aatatggtgt tgccatgaaa gtcataaggat 120
 acatgtaagt atgaaaactt tcatctatta aaatattact caaacaaggt gccaaaagga 180
 atataaagac tttattaaga gtgatcgatg cctataatga ttctcataca attggctctg 240
 aaacttatta tttatacttc cgttcataat tagtagcttc ttacaacatg acaacatgat 300
 aaaatggtat ccgatgtatt ttcactcat tttatctttt attttttact ttattttgtt 360

ggtagaattc atgagtatgt attaactatg aatagttgaa caagaaagct aataaagaga 420
ccagatccca aatgagataa gaaaaaa 447

<210> 20761
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20761

agctctataa gttcgggtct gggagacaaa tgtcaagtgt tcgcgatatg cgaagatgat 60
gttccgagta ctttggattt ggtacgacca tgccctcctg atttccaact gggaaattgg 120
cgagtggaag aacgccccgg catttacgca acgagcataa tgtaaactt tacggttnta 180
aaagctctat agttgggcct aggcntntaga gtttttcctt ttgttaaggc tttgtgtctt 240
ttgtttttga atttataata caaggatctt tcttcatctg ttcctatgtc tctaccatt 300
ctcattcatt tgcattgtta cttctttntc tgaaacggca gatccgatga cgagtcccc 360
gaaggtacta atacctggga cccgcctgtc gacttcgagc aagaaatgaa tcanacggaa 420
gatg 424

<210> 20762
<211> 428
<212> DNA
<213> Glycine max

<400> 20762

gtatgcccga gtcattcatc cctatgagat gttgtttatg tattttcgat cagaattgcc 60
attccttgga ttataggggt gaaccaagct catgctttta caaaaagggt catcaagtca 120
agttgaaata tggaagtaac cgtcttgcaa aattggggca aaagatgaat cgagtcacat 180
cactgcttcg tctactgcca aacatattta ggattattga tgccttggtt acttcagtt 240
tcaccttgac aaagagtcac ggccatgttg aaaatctaaa ttgattcaac cccatatctt 300
gcgtaaaaat tcgcaatact tcaactgtac atcatcgca tgcatacatg cttttcattg 360
gttgcatcgc tacgtgcatt ctttccttga aaaataaaaat aaaatgaact taatcattgg 420
tataaaaa 428

<210> 20763
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20763

ttctttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcctta 60
 gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtgaaa 120
 aattaccatt aaaggacctc attgaagctc aaagatctag catccataga agccccacaa 180
 gcaagcttcc atcaagtggg aatcagagca caagggcttc aagtaggtgc tccttaaacc 240
 tccattaatt ttttgcttta ccttctcttc cattgttggt tcatcatttt tctccatgta 300
 tctcctcaca tgtcttggtc taaatgttgt taacatgaat ctttagagtt tccaccgatt 360
 aaacttgcta taaagctaga tttgatntct atgggtca 397

<210> 20764
 <211> 111
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20764

catgaaaatg ccgtaactag gaagtgatcc tangtcgttt cccaacgagc agtgacaagc 60
 caaatgttca taatatactt gcagtaacag taacagtaac catggggggg g 111

<210> 20765
 <211> 357
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20765

ttcttttata tgtgaaatca ggtgcagcca tttcccttag agtcctctca cggagtggag 60
 gttgggtcat gttctcaaaa tgctcaaaat caaaatgttc aaaattataa tgctcaaaat 120
 caggatgctc aaaattacca accacaaaat gctcagtctc accaataata gaatgctcan 180
 gatgctcaaa aggtacaaaa tgatgcctaa ctaatctatg aaatgtgcta tctatctcan 240
 gatcaaaggg ttgtaagtca gatggattgc ctccagtgtg gtgtaggttt gaactacagc 300

tatcctcana tgatatccaa atgacttgaa attttgtgag caacacccta aaatcat 357

<210> 20766
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20766

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gggttgagaa atgaaattga gaatgaggta aatttggagc aaactctcaa ctcacacaag 120
tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180
aaatttgact cctcaacatc caattttacc ctagaaatga ctctttgggc actttgggtca 240
tttgtttttc ctcttgccag cccaagcttt ctcataagtc cttaatgaca tttcaaacta 300
ggaataactc actttaacct ccaaatacca cttaatccag atttggcctt ccaactctca 360
aaaactcact ctttttttnt cactcataac accatattct cactgtctaa ccctagggta 420
actctaccct tcattcct 438

<210> 20767
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20767

ttcttgtag ccaaatccac aactcgtct tcgttcagtt gattaatagt cttctggtaa 60
ggtagcagc ctattggccc aacgtttcct atgacaaact ttctagcatc catttggtaa 120
agtctctgcc attccaatca aacatgcaa gttacacatg acaaaaaata aaataaaata 180
aaatacagta aatntttggt tggattnttt tttaataaac atttataaaa gaaaaaccca 240
aaagtaaact gaaataaact tcttgccctca tcaatcaaaa tgaaataagt taatttataa 300
aaatccttcc acttaatttt ttcaaaaact gattntaact tataagagaa gtttaactcg 360
tgtatcttnt ttatcttaga ataaggaaac aagaaggtaa nataaaacaa tnttttataa 420
atngatataa cttat 435

<210> 20768

<211> 429
 <212> DNA
 <213> Glycine max

<400> 20768

tcagtacatg gtaaattgga tggcctggcc tttgtgccat atagtactag aactagaaga 60
 caacagcagg agctggaaca tcaacagagg tgacagtagc caggaaatgt acagggacag 120
 aatgtacatc agccttattc ttgcaagggg aaacagcaga atcagaagaa tcgtgcagcc 180
 ttaaatagaag aaaggaatag agacaattgg atccaacagc accttgaagc aaaatttcat 240
 gagtctcttc aatttgccag acacaaatga ggatgaaact caaagtatac tgaattgtct 300
 ttagcaaaact gactcacact cgacagggtt ttagtaatgg caggaacatg gagtaaatta 360
 ttaagtttaa aggagacttg aaattaaagg gagagatgat cgatgaagaa ccagaaccct 420
 taatttgca 429

<210> 20769
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20769

tatcttttgc aacagcatta ttaattntgt gagccccagt gtgattgaga tcttccctct 60
 tcagataaat gtgaggtcct tcaccattag gcctcttgta atgctccgtc aacctttcag 120
 caaaataaag aggactctcc cggccaacat aatcttttag aatcccagcc agttctgtct 180
 gcaactcaaa atctaagaaa atttccattg tttttccttc caggaaacta catttcatgg 240
 tttctgaatg tagttaacat acaaatatga gagatgtgct agtatgtang agagacagan 300
 agttattctg aatctaattg agtgaagatt aacatggagt tccaaattgg ttagttctgt 360
 atgaaactcg aaaaatanaa gactaaagaa attctgaaga atgaaatgat acacattcaa 420
 acagtcacaa aat 433

<210> 20770
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 20770

tgtatgagta ctgggaaaga ttcaagaaat tatttgcaag ttgtccttac caccagattt 60
 ttaagcaact ccttttgcaa tatttctatg agggacttaa caacatggag aggagtatga 120
 ttgatgttgc cagtgggtgga atccttggtg atatgactcc tactgaggct aagaatttga 180
 ttgaaaagat ggcttccaac tccaacaat tcaatgcaag aaatgatgtt attattctta 240
 gaggagtccc gacgtggcac ggattcatct tcactacta aaaataaaaa tcttgaagga 300
 aaacttgatg ccttgggtcaa cctaataact catcttgcca tgaatcagaa atctacacct 360
 gttgcaagag tctgggctat 380

<210> 20771
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 20771
 agctttatga gatctgaaac tcaacttcct ctctctccat ggaagtatgc tgcgcttgga 60
 actttgtact aaataaggct gagaagaaga agcagtagaa tcctccctct gtgaacaccc 120
 aacatcagac ttgcgatggc tgtaataaac ccagtcttca tcattacaat ttactctcgc 180
 attggaatga aaaaatcccc cagcatttgc agaagccagt gttccataac tgaatgactt 240
 cctaactctg gaatcctcct tccccccatc tgtttcacct tcctcagaat catcaagtga 300
 ctcagaatcc aaaggataat tgtattcacc atcctcactc ctagaagcac cttcttcact 360

<210> 20772
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 20772
 tagccattgc gaattatatg cagtogaaca tatattatta tgatctttat ctttattctt 60
 tagtataaac agaaaagatc gactttgatc agtatatgtc ctatggcaat ctattaaaca 120
 atttaattaa ttaattattc gacagaatac atatctgcaa gtttcaatat atattttatt 180
 caacccaaaa cttatctata tcaggaatat gagtaattat gtttcaacac cataaatatt 240
 taacaaaaaa gaaattagtt cgatatagct ataactaaat catagcagat tatcaatcaa 300
 gttacatgta gtagtgtatc ctattgaaat gaaactatct ttgagagtct tatgagctaa 360

<210> 20773
 <211> 257
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20773

agcttggtgca gagcaaata gaanaaggag taacaaatgt gaaagcaaga gcccatttct 60
 agggtaaata ggtgttgaga ggtcaaattt tgaatagggtg gagttttcac cttaaaacca 120
 gtttgagcaa gtctaaatca atgttataga cttgatgaag atgagagttt accccaaaat 180
 tacccaattt gtgcattgct agtcacgggc agggtagtac atctcgtgtt ctaagcatta 240
 tctagcagat cccaacg 257

<210> 20774
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20774

tatgctgcaa acacttataa tagtatctcc tcaacagcaa atccaacaac aatagaataa 60
 ttatgacett tcaagcaata gatacaatcc aggttgagg aatcatcaa atctgagata 120
 gacaagtcct ccacaacaac atcagcctgt cctcctttc caaaatgcta ctggtccaag 180
 caagccatat gttcctctc caatgcaaca acaacagtag cagtcacaac aaagacaaca 240
 agcactgatg cctcctcaa ccttccttag aggatttagt gaggcaaata accatccaga 300
 atatgcaatt tcagcaagag acaagagcct ccattcagag tctgacaaat tagatggggc 360
 agatggctac tcagttgaac caagctcaat cccaaaattc tgaccaattg ccttcacana 420
 ctatgcagaa tccg 434

<210> 20775
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 20775

tagcttgcca aggttgagct aagctaactt aaattcgata tgaattcggc taagcttcag 60
cctgatcgct aagagacagc ttatccgtgg ctaagcatga cctattgtcg ccaagctcaa 120
ttccttaagg ccataattga ggtccatgac actaagcacc agtcatggca gctaagcgag 180
attaattgcy gcaatatgag cgctaagcga gtcctctccc actaagtga tgctcctctg 240
tacttaagat gcatcattnt agctaagttg gctagagcct tgcttagcga gagttgcagc 300
ttttctaatac tacaaacctc tctaagaaga cgtaccctcg tgctaagctg agtntctgtt 360
aaaaaaaaac tgantttgaa tntgaaacgt cagctaagct cacgggt 407

<210> 20776

<211> 353

<212> DNA

<213> Glycine max

<400> 20776

gacctataaa actcagctta gagctggaga aagcttgacg atgttggttt tcttgcccaa 60
ctcccttgag tggcatttgt attggttgtt atattgaatt ttatcatctta atccatatca 120
tatcttttct gcatcatgca tcatcatgag taagtggaga gaaaaatttc taagtttgaa 180
aagttttcttc agaaggcaaa actcttttgt ttaatcgatt atagccttat cataatcgat 240
tacacaagtt ttctgagctt gcaagttatg tctcgattg gtttaatcga ttacaacctt 300
ctcgtaatcg attacatagt tggttttgag actgtcgcaa cctacccttt tgc 353

<210> 20777

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20777

agcttttatc ctatcatcaa accaatgaa tgcagggtat acctctgaag gcaattatcc 60
tgcatcctgt ccaatgccac aaccaaagg taactaattg caaaccttag ctccaatcgt 120
tgcaacattn taccagctca accaatcaat acacgaatag agggcaattt cacacattaa 180
cacagaanag taaatatata tataatatat atatgtgtgt gtgtgtgtgt gtgtgtgtgt 240
gtgtgtgtgt gtcacaaaaa aagatatgga tgtgagtgat tattgtgtct tggttgttaa 300

ggaaataata ttatggtgat ggccccacac aagcttcttt tcaatttgta taagagcact 360
tcaaagtcac agcccacttg cacttcatgc ttttaggtaa tcaatcata 409

<210> 20778
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20778

gttctaaatc agaattaaat gtaaccattt tatatttctt tgactatggt atatattggg 60
ttagagttgg ataccatct cctagaaaag aaccagggtg gttgtgtgtg gaaagttcat 120
tccacaagat gttgcaatca agataagaaa aaaaaaaaaa ctaactgtag agttgagata 180
ttagacttac aatttggttt ctccctaatt ctttttttat ttattttctg atttaaaaac 240
aaactctaaa ctcaagtataa cagaacctac ataataataa taataataat aataataata 300
ataataataa taataataat aataataata ataataataa taaaacaaaa cccaaataat 360
tcccaagttt tcttccttaa tccctttttt ttctgnatag aaaacanact aagaaac 417

<210> 20779
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20779

agcttgtagg atgcttcaat ggaggaaaag aaagaggag agaaagagag agggggggagc 60
acgaaattta aggaataaaa tagggagaga agtggaactt tgaagtatat ctcaagac 120
tctcattcat ccaaagttac aacaagtgtt acacatgttt ctatttatag actaggtagc 180
ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagttag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 300
cttctttgaa aagattccta aagaagctag agcttagcta cacacacctc tctaataagct 360
aagctcacct ncttgagatg agaagctaga acttagctac acaccccta taata 415

<210> 20780
<211> 422

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20780

tggaggaaga aggagatgaa taaagggaga gggagagaag atcatgattt tttgtgctct 60
 aagagagctc tgaaatctga agtttaattt tcaaagatc aaagttgaaa aaattgcaca 120
 cacatgacct ctatttatag cctaagtgtc acacaaaatt ggagggaaat ttgaatttct 180
 attcaaattt cacttgaatt tgtggagcca aattttggag ccaaaatttc actaattatg 240
 attagtgaat tttaacctgg ttctcccact aatccaagat gaagtccaag attctccact 300
 aagtgtgctt aggtgtcatg aggcattgta agcatgaagg acatgcacaa agtgtgacta 360
 tatgatgtgg caatggggtg tagcaagcaa attctcacct tcccctctna aatttaattg 420
 ga 422

<210> 20781
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20781

agcttctccc tcaattttct ataaataggg ggagaagtga agtagaaatg ggttcagccc 60
 ctttggcact tctctctctt tcgaatttgc ttaagaaaat tgtttccgtg aagaaaatcc 120
 aagccgaggt gcttccgtaa cccttccgag atgtttccgt aagcaaattc gtgaaggttt 180
 gcgtccgttc ttaccgttc ttcatccgt cttcgttctt caacgggtaa gttttcgaat 240
 ccgagacttt caatttatat cttgtttttt taagctntca tctttatttc gntcattntn 300
 tattttcttt cttacgtctn taacgcgcct ttaccgttta tttaagccgt tntctcacct 360
 aataaatgat aaaatgaatt tcaaccgatc atttgtgttg aatctcatta atcactntta 420
 aacgaaatct atcgat 436

<210> 20782
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 20782

cttcgcgagg tacgtaggtc aactntgngn tctttntggt ttattgttcc tgtgttcacg 60
atggtagaag tatgctaagt ttggaaggag tgatgtgggt attgcacgat ggttgaagta 120
tgctatgttt gagtgggtgt tcgtgtttta tagtttttta tgctaagttg ctacttctgg 180
tgatttgtct ctgctttttt tctgtgtgca tcccatatccc agcacaaggc cacataaacc 240
caatgctcaa gctaccaaatt tgtgatttca gttataactca gatgctccac attgtcaata 300
aactacctaa gctactcttc tcaccaatga tgttgggtcta gttctgtatg gctatttctgt 360
gatgtatatt tcactttttac tattactttt tctcactaga aagttgctga ctatccacaa 420
gtttgttgac tatacctgta tgct 444

<210> 20783

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20783

ttgcttgggt ttccaacctt aatcactgct ttatgtaaag ctagagaagt cacttctgat 60
tctaggacac tggagagtct caaccccgcc attaatttgg catatgtgaa gaagaactat 120
tggaatcttg atgatctaatt agtgactttc agagggccta ngaaggccaa ggggaagaaa 180
ttgaagactc tcccatcttt tgaggttccc tctaccacat cagcaccaac ttcttctacc 240
ctaggtactt ctgctccatc accaacttct ttcagatttt tcttttacac tagagatgct 300
acatgccatg atgcagagcc tacactgagg gcaggtcatt attatgcaga gcttccagag 360
cttgngccta ccatctatca tgagcatggt agactntcac attc 404

<210> 20784

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20784

nnttggagta gaaacatggg accttcacat tttatttcat attgtcgnat ctagtcaaga 60
tctgagagac catacaagtt tcctagcgggt ttctaattat atgggccatt aagtctatca 120

tatgctgaca atagccgaga agcccatgaa tttcttcggg gccggagtag gtgtctgcc 180
 ttgccttggc cttggctaataaatcgaggaa gttcttgact cccgttcaag gtaagagcaa 240
 acccgccatc ccatgggttg cttcttggtgt aaagagtcga tcacccttcc tctagcctct 300
 tttttcgcgt atactanggc atactcgtcc ggcacctat gctcgtgggc cgtggctaga 360
 cttaactctt cttggtactt ggcaatgata gctagcatgt nggtctccgt ctgcataaa 420
 cgctg 425

<210> 20785
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20785

tttctttttg taatgagtat tgttcccttc acttttgtgc tttccattnt ataaatttgt 60
 catattcttg ataaattttg cagcttcac atttatgcaa agcactgtca aatctatgga 120
 atcttatgga cacatcatac agtgagcgac aatctttttc ccatgtaatc aatttgttgt 180
 cactctcatc tgcagaagta acagatccgg gaagtcttac tctagaaata gtccagcagg 240
 taggtatcta acttaaata tccatagaaa atatcgga aa ctcaaattatt taaaaagtct 300
 acaactttnt acaagactga agctgaagta aagagact 338

<210> 20786
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20786

gggtnttgtg ctgcctatag atgcccgaat cctagttaaa tgggttttaa gctactgaag 60
 tgaactatgt ggatatggct tcttgtgcat taaaaatagc ccagtaaaat tctgaagaac 120
 tacttactac cttggtattg agaatgaggg gttgttctgt tcccagcttc ctttttcctt 180
 tccgtatcca ttatctattc cctctatccc accttgetaa aattcttaag cttaagctgc 240
 tgaatttctt ttgttcatta tagaaagaga aggaaatata ttgatttact cctgagaaca 300
 ggggttgacc ggatcaagaa aatgtttgga atcggatg 338

<210> 20787
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20787

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 ttgaatgtta ttgtcatttc acttttcata gagcttccgt tttcaatttc gagcgtctcg 120
 atatattaaa gggctcaatc ggacattcga gtaaaaagtt attgtcgttt gatttttgta 180
 agagcttccg ttttcaattc cgagcgtctc gatatcctat gggacacaat caaacatccg 240
 attcaaaaagt tattgtcgtt tgaatgtgct cagagcttca gttttcaact acaagcgtct 300
 cgatatatta cgggactcaa tcagacatct gaagttaaatt tattgtcatt tgacttttca 360
 tagagctctc gttttccata tcgagcgtct tgatatatta at 402

<210> 20788
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20788

ntaagaanag tcaaccgaca attacttntg acttcggatg ttgattgttt cctggaanac 60
 atcgagacgc tccaaattga aaatggaacc tctaagaaaa gtcagacgac aataactttt 120
 aactcggatg tctgatcgag ccctgtatta tatgaagacg ctcgaaattg aaaacagaag 180
 ctctaagaan agtcaaacga gaaaaacttt tgactcggat gtccgattgt gtcccgtatg 240
 atatcgagac gctcgactga aaacggaagc tctgagaaaa atcaaacgac aataactttt 300
 aactcggatg tccgattgag ccctgtatta tatcgagacc ctcgaaattcg aaacggaacc 360
 tctaaaaaag tcaaacgaca ataactttta actcggatgt ccgattgagc tctctaatat 420
 atcgagacgc 430

<210> 20789
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 20789

actcgacccg gatcttaagt cacctgcggc atgcattctt ataagtcaat aagtatatca 60

gccaccttta cacaaaatta ataataatcc taattgtcat gtcaatggcg taataataat 120

aataatgata ataacaataa taataataat aacaatcatt actattatta ttattattat 180

tactattatt atcaatatta ttattattca cagaggaata ctgccgatat agttctttac 240

aaaattaaat cattttgaca atttctcagc gaattaagtc accaactaaa aaaaaagacc 300

tcattattcag gtaataatct actaatgcta ta 332

<210> 20790

<211> 531

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20790

gcgcaccccg ancaccacca cacatcgcg aagccatcctg cggaaaaata tcgacacacc 60

cataannnca aaagaggcgc aatgaacctg agacacgcan nccgngaacn naaaaaacnca 120

ccccaanana nnnaaangag nnaagggcgc tataatatat taacacaggc aagngggcgc 180

aacggggcgc cacaaaaata aaggacgctc cccaataccc ggcaagtga cagagccagga 240

aatgcgagaa caccggaaca caccctctta attgcgggaa taaagccgca gcaccacaca 300

cgaacagggc gaccacagac gtccatcaga ggaagacatg gccacgactc ccataagaaa 360

ttccaccac cccgcccgc gcaaacccaa tgtggggacc ttaccacaaa acaataacaa 420

cctcgaaacc caccgaacc gaaccccgcc gcaacagaaa caaaaaaac ccaacgggaa 480

aaccaacca actgacacca aaacaccgga ccaacctaac caaagaaaaa g 531

<210> 20791

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20791

ttcttttgtc ttctgacgca tgtatgtaga ttaataacac gattntgttg ctgttggttg 60

tcgattgatt taatctctgt tcctcaattt acaactttga tcgaatcttt gttgcttctt 120

cctaattcga gttgttggtg gtactctgat tcgagcagtg gacattgttc gagattgtat 180
 ccctagactt tgttaattta gggctccacc atgtgggtgtt cttctatgca cttgctaatt 240
 cactangaaa aaaacattat aagcctaacc caccatctca ctgcatacac acaacaataa 300
 tgcanacccc acaacaaagt tcatcaaac aaccncaaaa gaaatcaagg anaaacatat 360
 aaccacacag 370

<210> 20792
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 20792

tttcttggtt tgtacaaata accttctcac tattcccttt tottaaagtg ctttcgacct 60
 ttttggaac agcacaagtt attttttttt tttttttttt tttgacatac aacttaattg 120
 gtgtgggggc tgatgcctaa cccttttctt tcttttctaat gactttcttc ccccaaaatt 180
 aaaagaaaat ttccttgaac catatgctct cctagaatct aaa 223

<210> 20793
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20793

agctttaatt agaaattgaa ttttattaca ataataaaa catggtttgc ttataggctt 60
 ctggttgggg attacttctc tattcttgaa agcttttgat ttggcttgta cgtaatacat 120
 gaattagggtt gtctttattt taatgttcaa cctttttctc ttggttcatt tagttatcta 180
 caattaatta gtatagttgg gtaacaaact aaacaagtta ccataatgtt tcattctatg 240
 tactgaattg gaaataatta gctatttctt gggtctatta gtaagtttat tttttatttg 300
 caaaaatatt tctaccaacc aatttttctt ccgtccaaac accatgatga aagtttttat 360
 tcacagtaat tggaataatc ttctataaga tgacacctag tanaaagtnt tataaatgat 420
 aaattatgat t 431

<210> 20794
 <211> 409

<212> DNA
 <213> Glycine max
 <400> 20794

tggctaatacc cgaccaacc caggcatagt cagtcagtga taacctgtga cgtacctaaag 60
 caggcgagct cctgacagtc aaccaataaa agaacaaagt ccacgaagca aggaggcttg 120
 tgtggtggct gaccagctat ttatcttagg tggtatctga aaattaccct ctggtaatcg 180
 attaccattc gtgggtaatc gattacaggg tttaaaaaaa tggagacagg atgttaagta 240
 gcttctggaa tcattaccaa ttgtgtgtaa tcgattacac agtatgatag ggcactggta 300
 atcgattacc agttgtgtgt aatcgattac atagtgttac ctgctactag taatcgatta 360
 ccatttatgt gtaatcgatt acacagtgtg acttttagatt ccactgtgc 409

<210> 20795
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 20795

tatcttgtat tgaaactaaa aataagaaca aacctaccta attgggtccct atgtacacac 60
 accatgaaga tgttaagtgt acgagtgatt ttacaaaaga aggttgcacc actcaaagca 120
 ttcatacatc caactatddd agggacttgg tgcctaataa tacctatddd gggcaccaac 180
 aaggcacaag gatttaagct cttgcgaacc aaaccctcat ccaacaactt ctttacttga 240
 ggaataaact caagcccaag aggtgtggca atactagcaa atgtcttttt acaaaagaga 300
 aaatgtggag gttgtctaaa agggaaagtt tctttaatgg ttgtctttat ttgtaaata 360
 gtttccttct tagctaacct cttggaggag acacttacct tcttacactt ctcttttacc 420
 ac 422

<210> 20796
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20796

tgtaggatta tgggggtaccc atcacatgtg gtactaggtg tcggnccgggc gatgggtgcac 60

attctgcatc cttacatttc atccttaa at aggtcccaat atatatatat atatatatat 360
 atatatcatg ggtacatgaa attgttaatg aaaattatct ctcttaaaga gtacttttaa 420
 ttntaaaaaa ata 433

<210> 20799
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 20799

agcttattgt aacaaaaagg aagatatattt tcttatcttt ccaaggacta ctcacacggt 60
 caatttgaag ttatttagtg tcctctaagc actgcacaag gcaaataagg caagtaagca 120
 caaaatatga aatttagcta taattctcaa ttaattctcaa tcatatttgc ctaagaccaa 180
 aactgaatta aggtgagtaa ataagagtca aggagatagc aatgagctaa gaagaatata 240
 aaaatattca acaacaaatg ctcaatcaaa gtctatctcc tatcatcagg gcacccacca 300
 agatcggaag ctgtgtaccc tacaacctcc aagttgtcaa ctctcatata cacaagcata 360
 gactccttag tcttctacaa gtacctcatc accttcttag caactatcca tcg 413

<210> 20800
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20800

agcttttgtt ttcaacgaca taattgactc aactcaatat ttcctctcaa tcatcttcaa 60
 caattgatgg agctgaaata aaatcaatcc ataagaaaag ttaacaaaat gaatgaattt 120
 caataagatt aagataatta ataaccaacc aacatcataa caataagaaa atggaataac 180
 cccaccagca atcaagcttt ttggtgtcaa ggtgaacaac aaaaaagcaa caaaaaaaaa 240
 aggtgtggct aggggaagga aatcattaat taagcattga tatatagaga gaaaattacc 300
 atgcaaaaana gacaaaaagg cgcaagaaaa gaattctcct tcttgtaggt gcatangaag 360
 gaaatgcaat gttggttgag aaggagagtga t 391

<210> 20801
 <211> 408

<212> DNA
 <213> Glycine max
 <400> 20801

agcttatttt ttgccacctg ttattatttc tattcaaaca ctatgattga aactgatta 60
 agacactgac atatgttaga tatgattgat atgacatgac tgtacgacat taaaattaaa 120
 cacaatactt aatgacatgc gatattacta taaaaacatg tatgttaaata tataattcct 180
 gtgggtggga taaatatatg cgtacgctta aatgtcacga gtggcaacca gccctaccac 240
 tattaataga tagacatata aagtgatgtg actagttgtg tataggaaca tgaagttatc 300
 tccatatcaa gtatcactta cttagcacct gacagatata tatattgttt gcatacgctc 360
 gaatgacgta cgtgaaagag taacattcac ttatatctga aactact 408

<210> 20802
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 20802

agcttcttgt ttctcaattg ctccaggttg ctgcatggaa gggcaaaggt ctgtatggtg 60
 gtcagcagag gagcacaac cacaaccct tgcgacaggt acagatttct gattcaaggc 120
 cagctgggtt accaagttga ccaacgcac cagtttgctt tcaagcttct tagtttcaga 180
 tgatgcagat gggttttag ctacctcatg cactcctcta atgactatgg catcatttct 240
 ggcaactaac tgctgggagt tggaggccat cttctcaatt aaatttttgg cttcagcagg 300
 agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360
 gagtccttca taaaaatatt ggagaagaag ctgttctgaa atctgatggt ggg 413

<210> 20803
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 20803

agcttcaaat tacagtgagt gattcaagct tagcgctact atctgcgcta agcgtaacttc 60
 caatgatttc aaaacaaaac gatgttggcg cttagcgcat ctttcccgc taagctcagc 120
 ttgaaagctc aacttacaaa atgaatttgg gacttagcgt agaagacgc gcttagtgca 180

actataataa attttcatag agaggaagtg gcgcttagtg catcatccac gctaagccca 240
 ctgcttaagg tgcaacttac agtgaagatg ttgggcttag cgcaatgatg tgcgcttagc 300
 tgaaccattc acccaatcaa tcaggggtct ttgcgcttag catgagcaag ctcagcttat 360
 cgcgtgaaga gatgggtgctt agcataaggc ttgcgcttag cggataagca atct 414

<210> 20804
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20804

agtcttcttc cccattttcc tataaatagg gggagaggtg aagggaaaaa atgttcagcc 60
 ctcttggtaa ttcaagatca cttgaaatta gtgaaaaaaa ttggttccgt gaagataatc 120
 caagccaagg cgcttccgta acgtttctgc gggtgatttc gcgaagattt tcaaccgttc 180
 ttcgacgttc ttcgttcgtt cttcgtcgtt cttcgggtctt caaccggtaa gttcctgaaa 240
 tcgaactttt caattcattn tatgcaccct tgggtggctct catttgtttc gtgtactttt 300
 attctcgttt catttacttt tcgtaccenc ttttgacgtg ttttagtcat ttgcttaagt 360
 cattntctcg cctaatacaan aaataaaaata cattttcacc gatca 405

<210> 20805
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20805

agcttggttat taaagtggac tcgttcaagc aaggcaatgg aatttgagag ttgttattgg 60
 cctcaactaa tttattattg gttcctatca ttctataaat gcataaatta taacatgttt 120
 tcggtacatt ttattgaagt taatttaaata gaagagtaag ttttttaaata ttaatatcta 180
 gagtaaaacta cacatatcat ttctgaagtt tgactttatt atatctaata tctctccatt 240
 tttgaacttt acaaaaaaaaa tcctttaatt ttttagattt gggttactcct cttagacgta 300
 aaaaaagaat gttacaccaa ctcttcttta attangagtg tgtaaagcaa cgtaaaataa 360
 tgaagaaata tcgggtaata caagataaat gagcagaaaa tgagata 407

<210> 20806
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 20806

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 ccacctcctt gcatataagt acattattca acattggact gactatctaa agatggatgt 120
 taatgctctc tctgacctgc atgaatactc ccttgctcga gcctattgga ttctcactat 180
 acctaatatt catttggtga gagacctaca tcgcaccgta cactcatct cgatcatatg 240
 actgtgtcgc gagcagtcga aaataacat ctatctcatc cactacaa agcctctact 300
 ggagagatat ttgcaaaag ccatacttg attgtgaaga ctagttcctt agtacaatta 360
 tcgataaaat ctattcgttc atcacccttg ggatgacaca taagtat 407

<210> 20807
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 20807

agctttttatt atgcatgtca tattcttaat agggctcctt ataaaatttt gaaaaaaacc 60
 tttatgagtt atggagaaaa agagaaccaa atatgaaata tcttaaagtg tgggagtgtc 120
 ttgcaaaggt taacatccct attaataaga aaagaaaaat tggaccaacc gttgattgtg 180
 tttttgttgg atattttttg catagtacta cttatagatt cttggttgtt aattctaaag 240
 tgttcaaaat ttctaataat actattatgg aatctagaga tgacactttc ttgaaaatg 300
 tttttccttt ggaaaaaaa aattgtctaa acccgtttgt gatacttctt attctgattt 360
 gtcattctgt agtaattcta ataaggatgt tgtttttgaa cctata 406

<210> 20808
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 20808

agcttgagct cactgttgca gcccacaaa gctccacaga atttgtctcg gccatgttct 60

tccttgcgag ccctcttggg ttcttgttca agggctcttg cagtagccgc actttcttct 120
 cgtaactcgg cacactcttt ccggacgact atagcgacca acttgaattt ttctttggca 180
 agtcttgctt ttcttagttt ggtttttaga gctcggactt cttcacctc ttccggagct 240
 tcgaagttct cctcattgat aattttcaac ttggagagcc aatctaacc tcattgtacga 300
 actttcagcc attcatgata accaccgatg atgccattac ggatgcccct aagttcttta 360
 tctatactta acgggccttt ccacgcctta tggactcttt gtataatc 408

<210> 20809
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20809

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 accagatata ccggacacga tggaggcccg acgaaaatgg aaggtaaaat atgggaagat 120
 gttgtttgtt ctgagaatga cggtaacaa ggaattaatt gatcacatta gagatcttga 180
 cacaccaaag gatgtatggg agacactaga aaaactcttc tccaagaaaa atgttgctcg 240
 attgcagttg ttggaaaatg aacttgcatc cacagtgcaa ggaaatctta caattgctga 300
 atacttctta aagattaata atctttgtgc agatctgagt gagaaaatca gtgaggcaat 360
 gtgaaggaga tacatcatta ngggtttgaa aaaggagta 399

<210> 20810
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 20810

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 catccaagaa aaaatttatt gtcgtttgaa tttgctcaga gattcaacat tcaatttcga 120
 gcgtctcgat atattacggg actcaatcag acatccgagt aaaaagttat tgcgtttga 180
 attggctccg agcttcaaca ttcaatttcg agcgtctcga tatgttacga gactcaatca 240
 gacatccgag taaaagcta ttgctgtttg aatttgctca gagattcaac attgaattgc 300

gaggggtctcg atatcttacg ggactcaatc agacatccga gtgaatagtt attgtcgttt 360
gaattggctc agagcttcaa cattcaattt cgaggggtctc gatataattac g 411

<210> 20811
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20811

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cttgaagaat ggtcgataat cttcgcgtaa ttactcacgg aaacggttacg gaagcgcctc 120
ggcttgggatt ttcttcacgg aactaatttt cctcagccat ttcgagagag agagaagtgc 180
ctaagggggcc gaaccccttt cttcttcact tctcccccta tttatagcaa aataggggag 240
aagcttgccg cccagctcgc ccaggcgagc aaggttgctt cctccagaag caacagcctt 300
ctggaggaat cttctggagg gcccaagtgg gcctgggtgc tatttgcacc cncctattta 360
ctaagtgcac cccctttcta ttnttttgta attctttntc tgtaacgtta cg 412

<210> 20812
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20812

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ctttctatga tttatctag tgagagtgc ttgacttacc agtgtgtggt ttgtcttacc 120
atgtacttct gggcgcccga cgaggttttt cattgacatg gtacctcatt acatatagga 180
ttgagtctta gtatatttgt tgcataaacac ctgtgtattg atcgatattg attgggtgat 240
tgatattgtg ttttgatcct taagtacgta aatgggtgtga aaatgtgtga gacgtgtagt 300
gttgagatgt gatgttacgt gataagtggg ggaatgacgt gagctatggt gaagtaagtt 360
gtatttcacg atatgtatat tatgttgntt tgtttctctc tattaagtt 409

<210> 20813
<211> 410
<212> DNA

<213> Glycine max

<400> 20813

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tcgatcaata tcggtgaata atattttttt gccgaggtgg gctaattgtt tcttgccga 120
ataaatggga acacgccagt ttcggccgaa acaaacatc ggttgagctc gcacgaaaaa 180
acctagccga cctacattgt aagtttttta tgcaacaccg acaaaaaaaa aacttccct 240
gccataagaa aaaacattat cggccagcga gcgtttttt aaaaaaaaaa ttgggcaatg 300
tcggctgaaa aatatcagtc ggggccattt cacgaccgat gtcggctatt gagttttcta 360
ttcaatccct gaatgaaatt tgcattgatg cgattaggaa atgtttgatc 410

<210> 20814

<211> 412

<212> DNA

<213> Glycine max

<400> 20814

agcttttgct tgtgcaagct ctacgtaaag gaggggaagt tgttgcggtc acaggagacg 60
gcaccaatga tgctcctgcc ctacatgagg tctgtcctat tctttggatg catccttttg 120
actggtgaga aataaattag ctacaaaact ttttatctcc tgaaatcttg cttatgaatg 180
aacagaatat atatttcact acgaacacat ttgaacagta tatcatgaag cttccatatt 240
tgattcgaat gactttcata aacttttctc attaaaattg ttctggcaga catgaagttc 300
cgtgtaattt gctcttttagc tcgtaggaag ttgttccaat gtgttcagta gacatgggtc 360
tagttgaagt tgaatgctaa agcctgcata ttcgaatgtc aagtttcatg tc 412

<210> 20815

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20815

agcttggtgc tattaggatt attagctctc acagggcaga ttttctacat ttcagccata 60
catccagttc tgctggatat aaaacctgct ctttcaacca acgacaatca attacatgtg 120
aaaagttaat tcttcttaat tcttatatac atggccttta tgggtgtgaa gaattagtat 180

ttactatcta cttttctttg ctatatatgt tagtcctggt aacagaatat cgttaagctc 240
 gtacaaggac ttttgaacga accagaggat gcngatgcat ataaagaagg gactctctat 300
 acaggtactc tagatggatg gattaataga ttgcgcagga atcatggaaa ccggcagaat 360
 tggatgcaca tngatagtca tacttttgcta ggaat 395

<210> 20816
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 20816

agtttattac tcttggcaat tccttttaaaa ctaatcactt ataaagatat gacttttgaa 60
 agaatcttca gaaacaagtc acttgaagaa atgtgacttt tggaaatgaa tttttcgaaa 120
 acagtcactg gtaatcgatt accagaaaagg tgtaatcgat tacacatcaa cagatgtgac 180
 tcttcatttt gaattttgaa aatcttaatg ttttaaaacc actggtaatc gattactata 240
 atctggtaat cgattaccag agagtaaaac tctgtggtaa tgattttgtg aaaacttctt 300
 gtgctactca atgttttgaa aaacttttta atacttatct tgattgaggc ttctcttgat 360
 tcttgaatct tgagtcttga atcttgatct ttgaaacttg attcttgaat 410

<210> 20817
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20817

tgtttattgg actgtactc taacttcttt aatttccaca tcttgtggaa ctgtactccc 60
 attgatttca ccattttcaa tgaatcttgc atttccagct ttgaaaattc tcatactatg 120
 attaggacaa taaaacatat accccttttg acttttctgg ataaccaatg aaatatccac 180
 tgattgttca tgcattcaat tttctttctt gtggattata aatccttatt tctgcttggc 240
 aaccctaaac atgcaagtgc cttatactag gtgtctttgg aactgcctta ctaggaaccc 300
 tattcaacaa atacatggta ttnttcaagg catacatcca caaagataca ggtaaatttg 360
 aattacttaa catactccta accatatcca ttaaaattct attacgcctt 410

<210> 20818
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 20818

agtttcttac aaagcatacg gctttctgga ttagatgat gatattata cagatggatc 60
 ttatatatct atatatctat agatagatat atacatatag atatatagat atagatcata 120
 caatgaagta ccgcacgagt gggatatatac gaatccaaat ctgccgaatc actcatgtta 180
 tgatcttcta catcctaggt cttcccgtagc cttcatctgg cttatgttct tcatgtagca 240
 ttcagactga atgactctat gatatgacgt cgctacttcc acatggtagc ggtaacgtac 300
 gagacatctc tatttttccc ggggggaatc cttagagtga ccacagctta gctttcaatt 360
 cgctctgac catcaaatga aatgtgaata accc 394

<210> 20819
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 20819

agcttttcat catgggctaa gtttgaaatt gggagggctg ctgtctattg gaaaaccatg 60
 aatggcctcc ctctacttc agtaagtata aaagtattga gttaactcat tgcttggtat 120
 tcaatcaatt atctttcagt aaaaaaattt acaaattttg gcaggagagaa aagctaaac 180
 ttttctataa tccagctgca actcaacttg tccctaataga agaatttgga attgctttta 240
 atggtaattt ttgcaatgtt acttggttgc ccaaaaatgt catttgccat tgcatttgta 300
 aggaaaaata tttggattca ttataaacag acataaactg caccaagaac aagcgatata 360
 aattacacat cgtaattcag aattagcatg tatgtttgga gtcaatggaa a 411

<210> 20820
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 20820

agcttctcta aatattatgc gcctgaatcg gacttccggg tgaaaagtta tgaccattgg 60

aatttctcga gagcttccga tgttcaattt cgagcatctg gatataattat gcacctgaat 120
 cggacttccg tgagataagt tatgaccatt tgaatttctc gagagcttgc gatgctcatt 180
 atcgagcttc tcgatatata atgcgcctga atcggacatt cgtgtgaaaa gctatgacca 240
 ttggaatttc tcgagagctt ccgatgttca atttcgagca tctgaatata ttatgtgcct 300
 gaatcggaca tccgtgtgac atgctatgac catttgaatt tctcgagacc acacgttggt 360
 caatttcgag agtctcgata tattatgcgc ctgaatc 397

<210> 20821
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20821

tttcatgcaa gctttgcttt tacatatcat tcatggatat tttgattctc gctagccaaa 60
 ttgagctggt caacaccagt taccgtgcat atcattcaat gttttgggtca aagatgtgaa 120
 aaatacccaa gggcctgngc aaaaagggtca tttcaggcat ttttctgggt cctggctcgc 180
 ctaggcccc aaatagctta agggcaaagt aaccaactca cttgggtgag aaagggtact 240
 ttggagtga gcatcagctc aattgggtga gttgcaagac caacaagtgc tctcatttct 300
 tataaatagg catgatggag gctgaggaag gggttggacc ttcattgtta agagaaattg 360
 gagagaaatt aatgagaaga aga 383

<210> 20822
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 20822

agcttggtat gattgatggg gaccgggtgt tgagagaaac gaggatatgg gctacgtggg 60
 agtacgtgag ctcaattgga ggtgggcaac aggggatggg gggtttatgc gcgcattgtg 120
 gatgtgaaa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
 taccataa tcctacaagc ttgagatgag gaagtgttga agggtgaaac ttctgtcttt 240
 tattgttgac cacagagtgg tacctggaga tatgtcggg cggtcaggag accttgggga 300
 cgtcagggtg ggtgctattg cccaaaacca agcttgacca atcccgacc aaccgggga 360

tagtcggtca gtgagaacct gtgatgtaçc taagcaggcg agc

403

<210> 20823
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20823

agcttggttta ttcaaatttc aagatacaag tgaactcccc aagaagtgc atggcccact 60
tgtgggttttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120
caaggaggta cctttgggggt accttaaacc aacattgggt gtgcccttaa ggtacttaat 180
aatccttttg acaacattta aatgggtattc cttgggattt tatttatatc tttcacatat 240
gcacacactt agcatgatgt caagttggct tgtagtcaaa tataggagat aaccaatcat 300
acctctatac tttgactcat ctaccgattt acctttttca tccaagtcaa gataaatgga 360
tgttgccatt ggtattgttt cttccttaca ctnttccata ttgaaattct taat 414

<210> 20824
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20824

agctnttang attttcaaac gacaataact ttttactcgg atgtctgatt aagtcccgtg 60
atatatcgag acgctctaaa ttgaatgttg aagctctgac caaattcaaa cgacgataaa 120
tttttactcg gatgtctgat tgagtcctgt aatatatcga gactctcgaa attaaatgtt 180
gaagctctaa gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
taatacatcg agacgctcga aatttattgt tgaagctctc agcaaattca aacgacaata 300
acattntact cgtatgtctg attgagtccc gtaatacatc gagacgctca aaattgaatg 360
ttgatgctct cagcaaattc aaacgacaat agacttttac tcagatgtct gat 413

<210> 20825
<211> 413
<212> DNA
<213> Glycine max

<400> 20825

agcttgcattg atttacctt ccccttttct caagaaaatt cttctttata tcatcaaatt 60
cttcatgatt tacaagaagg tccacctgca tgaaattttt tgtaggaag cttctctttt 120
tgtgcgacta tgtcatcctc tttctcaggt gtagaagcaa gcttgacagg ttcaggtgca 180
gggtctgcta ctagtggagg cacttgaatc tggttgcag acttcaaggt gatggcactc 240
acattttttg gattctgcat agtttgtgaa ggcaatttgt cagaattttg ggactgagct 300
tgattcaact gagtagccat ctgccccatc tgatttgcga gactctaaat ggaggctctt 360
gtctcttgct gaaattgcat attctggatg gtcatttgcc tcaactaactc ttc 413

<210> 20826

<211> 412

<212> DNA

<213> Glycine max

<400> 20826

agcttatttc atgtttctat gttcaaata aattagtgtt ttgaaagttg ttttttatca 60
agtgcattgca aaaacttcta aattcatttg gtatttggga aagccattca ttgattttca 120
ttctcaatgt tgccaaaaat cactttgttg tgttttgatc caattcaaaa gcaagtttca 180
aaatcactgg ttgctgattc tttccaaaac atgttatgtc caagaaaaat tttctgttta 240
agtcccaaaa agagttatat atattctaca actacgctaa cagaacaaaa ttatttagtg 300
gtgtgtacta ccaaaaagag ggtgtcagac cctaatttca tccggggaat gtttttatcg 360
ttcgacacaa cccgatcaat catatgcaag aaccttgctc gagtgaatga gt 412

<210> 20827

<211> 407

<212> DNA

<213> Glycine max

<400> 20827

tgtttgcattg ctaccgggct catcctctca acaattttta agggtccata gaaacgcctc 60
gaaagctttg actggcctgt tccggccacc gtggtttgcc gatatggctc cagcttgact 120
agaaccact tatttacctg aaactcatgg tccctgcgat gtccatccgc gatttccttc 180
atgcgagcct gcgctttctg caatttccgg cgaaggaggt taaacatgtc ttccctctga 240

ctgagcaaat cgtccactgt tgctacagtg gaggtgcctg ttaagtattg gggcaaactt 300
 ggaggtttgc ggccaaatgt aacctcgaag ggtgttagcc tcgtggctga gtggacagac 360
 gtgttatatcg accactctgc ccacaacagg aagcgcccc acgaact 407

<210> 20828
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 20828

tgttttctagt cgtccataga cctcctcata ggtacggtcc agcgaacggt gcatctgtgc 60
 attcatcgca tccagtaaca gacgttgaac gccgtcctac tgatgatact cgtcaccacc 120
 gccacctgct ccagccataa ttcaacagga aaaaaaatgt gcaataagaa ttattaaggt 180
 ttcaggacct cacaacactc tactcacgtg ttgaactctt agatggtagt acacttgctc 240
 ttaatgctct cagataggct tttgtgtaat gtattccctc ttgcctttta ccactcgtgt 300
 ctctctttaa gtgcctggat ggaccaaatt agacacacaa cgtaatataa aataaaagga 360
 aagacaatat aatgatcaca aacagacttg attcgggatg aca 403

<210> 20829
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 20829

tgtttggttg tcaactacat gccttggtta acctggtaac ccagctggcc ttgaatcaga 60
 aatctgtact tgttgcaaga atctgtggtt tatgtcctc tgccgaccac catacagacc 120
 tttgcccttc tgtgcagcaa tctggagcaa ttgaacagcc tgaagcttat gctacaaaca 180
 tctacaatag acctcctcaa cctcaacagc aaaatcaacc acagcagaac aattatgacc 240
 tctcctgcaa cagatacaac cccgaatgga ggaatcacc taatctcaga tggcttagcc 300
 ctcagccaca acaacagcaa cctgctcctt ccttcagaa tgctgctggt cgaaatagac 360
 catacgttcc tccaccagtg caacaacaac agtaccaca gcatcaacag a 411

<210> 20830
 <211> 411

<212> DNA
<213> Glycine max

<400> 20830

agcttgtatg taaactagat gccttggtta acctggtaac ctaactggcc atgaatcaaa 60
aatcaacacc tgtcgccaga ctctgtggat tatgctcttc tgccgaccac cacacagacc 120
tttgcccttg tgtgcagcaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180
tctacaatag acctcctcca cctcagtagc aaaatcagcc acaacagaac aattatgacc 240
tctctagcaa caggtacaat cccgagtggg ggaatcatcc caaccttaga tggtttaatc 300
cttcacaaca gccgcagcag atacaacagc cttattttca gaatgctgct ggcccaagca 360
gaccatacat tactccacca atgcaacaac atctacagcc ccagaaacag a 411

<210> 20831
<211> 408
<212> DNA
<213> Glycine max

<400> 20831

tgtttattga gtttagacaa taatgcatga ttagtgccca aacttgatga tattttttgt 60
gcatactttc tttgatcgac agtttttatg tatatacttt ctttttttga cagttatttt 120
gtatgtgctt agaacttata atttaggatt atcctccatg agctaaaatg gataattatc 180
agaatataat ggtgacgtgt gggaatgtga gatcatgatg cgttactttg cttttctgtg 240
tttaattctt aatttgctag atgagaaaaca atttcaaagc aaatgttctt cgcttttgac 300
aaagaaaaac agaaggattt ttttaataaa ctatttatta ccgtgtgttt ccttcggcag 360
ctaaacattc gcaagccgca acagattatc tagtctcaag ctaagact 408

<210> 20832
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20832

tttgcttgca agctntgagc aaattcaaac aacaataact ttttactcgg atgtctgatt 60
gagtcocgta atatatcgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa 120

cgacaacaac tttttactcg gatgtctgat tgagtcccg aatataatcga gacgctcgga 180
 attgaatggt gaagctttga gcaaattcaa acgacaataa ctttttactc ggatgtctga 240
 ttgagtcccg taatataatcg agacgctcaa aattgaatgt tgaagctctg atccaattca 300
 aacgacaata actttttact cggataattg attgagtcctc gtaatataac tagacgctcg 360
 aaattgaatg ttgaagctct aagccaattc aaacgacaat aac 403

<210> 20833
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20833

agcttgctca tctaagtaac ttttatccaa aataattttc atatttgcaa taattgagca 60
 tgcacgatag tacgcaaacg gaaaggattg gggtatatat cgtatgtatg tgacataaag 120
 aagaaaaatg aaaacgataa taacgatata gattttttat tctattttta tttgaataaa 180
 gtaaaagtaa tgccgacttt tcaaataat attcaggatc taagtaggcg aaattaaaca 240
 cgaaaattat acattgaatt gaataaaaat ctaaaatcat actcgttcaa ttcaccatga 300
 tttgatgcan atgtatgtn tctttctacc tctctctttg cctgaatatg aaatcgatca 360
 ctccaagctn tnntctctc actttntatc attatgaatg gat 403

<210> 20834
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 20834

agctttcttcg tgtgctgaag tatactacag agagaaggat ccaagttcca aagaagtttg 60
 agagataatg ttgtgcatag acctgcagag accacaactc ggagaggaag ccgtcctgag 120
 agcttgatat gagttcgtga gtgaatgtga cgacctagac gtggacgata catccccgct 180
 acttttattt cttcaatcct tcatctttct cttctctttg ttgtaaagga agcttcctag 240
 ttatggagag ctaaatecct tgttggttct tccttgtagg tacttgatgt aaatatttgc 300
 atatctattt aatgatgttt tgtgtgttca ctgtgctatc agaacttcat tctaccatgc 360
 ttttgcttg atcacataga tgcattgcgtt tttagggtca ttcaactttg gaaact 416

<210> 20835
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20835

agcttttctt acttgcgat tgctttacgt tggttgttat atgcaataat caaatgtaat 60
 aaataaaata attttctctt tcaatgtacg attcatatgg tagttaattt tgtagttttg 120
 tacttcctag tttatcaagg gattttcatg cataattcat attggcattg aattataatg 180
 ttattttgtg tgttctgttg gagatccaaa aggttcctta agattcggtc tagctcattg 240
 tcatgaacta tagttgcagt tggttgattt tcaaaattgg tagccaagtt gttatctttg 300
 ttcttttaaa ttccctcgaa gcacaccatc ttgattccaa aaggaaacat acatgtaaaa 360
 acttgcaatt tnttcttaat atattgtcaa aactcacaat taacagatct ac 412

<210> 20836
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 20836

agcttgcttc ttaagagaga gagagagaga gagagagaga gagatcagca aaaatggatc 60
 aacggacaaa catgaaatag gaatgatgca atatgaaaag tgagggatgc acttttgaaa 120
 acaattatca agggcaaagc cgcataggat cggcagaaaag ggagaaggaa aatgataaaa 180
 cttgaaattt attgaaattg aaagaagtgc ttacaaagtt gtcctaagta gagcacctct 240
 cttctcagac tectgaaaat ggctaaatga aagggtgcct cacaacatgg tcgaggactc 300
 cttttatagc caaaaacatt actgtttgct acagtaccgg taacttgacc gaaactatta 360
 taataattac tacaataccg gtgaaataac cggaataatc atgaaacggt tatgtaa 417

<210> 20837
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20837

agcttggtgg ttatacaaac actgaggctt angatttggt ttcccccggt cagatcaacc 60
 cggtgtttca aaataaagct cttttatcaa gttacgcaca cattcgagtc cattcagggc 120
 ttctgggaaaa atcttcattg cattcacctt tcaggtgcac acacattttt tttctttcaa 180
 aaatcttttt atgttccgac ccgtgaattt tccgaagaaa aaaaaagcgg ttattttctt 240
 tcaaaagcat gttcgtntt agtttttttt tagcttttcc tttcaagcaa atttcttttg 300
 tgttagaaaa ggtttgtaac ccgggcaaag tcggtaaccg agattacact ttatcaaaag 360
 gaaataaagg catacgaatg caaatacaca agactcccta ttttttt 407

<210> 20838
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 20838

agctttaaat taaacgtcct ttctcacctt gattactccg aagctgttgt gtccttcct 60
 tggcaagttt gtcctgaag attgtgaccc aagtgaagt agcactgtag gttcggaaag 120
 caatcactgg aatcctaaac tcttggtcaa ctcccatgac aatcgttgac atgagtccat 180
 caactatgat gcaagatggg tgctgccact gatcaccatt tttctcgaga agtcttgaga 240
 acaattctcg gaactctttg gcaactaagg atctggcgct aggagtgata agcattggaa 300
 ggtagtttat tacggcacct tttctaggat tgctcagagg tatgccatca gtgatggatg 360
 caaagaggaa atcgggaaat tgagtgtgga atgagggtaa atctgtgaa 409

<210> 20839
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20839

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 ggagttcatt aataggtgcc acacattgat gcaaagggtg ctacaactca tgtttttagct 120
 gcccttggtta ctcttgatc tgacaaaaac ctgaccgtaa agtatggcca gcatagatgc 180
 atttggtgct gtgactcaac acttcaaaaa tgagatggta tctatcacca atatttctcc 240

cggttttctg attaaatggt gatgctaattg cagatcccca tgtcaaattg cttgatcaaa 300
 taaaatatct tccagattgt tgacaagata cgtgttgaaa tggatgcctt tcttgaaaat 360
 gggtcccatg aagctactat agctgttatt cgtgcgt 397

<210> 20840
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20840

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
 ccccataaat cctcccaagc tttcccaaca tccaagtaat acaacattca aacagcacia 240
 attatcacag ccaagcaaaa cagggcaaag gtagaaaact ctgccaaaac accaaccaaa 300
 atcacagctt ttctactta aagaccccag taacaattcc tttgttccaa ttcgttaacc 360
 gttggatoga ctccaaaatt ntactggaag tctctcgtac ttaagcctac attg 414

<210> 20841
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20841

agctnttgtt aacgtaatgt ctctacata ttcagggtgaa aatgagaagt tctttatgta 60
 ttaacaagtt tatgcatata tccgaaaaat tcaaagttgc tccaaaatta aattgacgct 120
 catcgataat gtaactagta aggccaaagg tggaaacata tcccaaaata atataacagt 180
 atacgtcaat atttcatgat atttagtgct aatggttgca acttgcaaga aaagaatata 240
 ccaaagttac aagaatgtca acaaattnta aaactagtta tcgtattcct tgcaatcatg 300
 gcaaaagtcc ttgataacct ctctgtggca actattttag taagtataga acaagtaaca 360
 aagtaattaa tattaggaaa ataaaatatg caagaaaaaa aga 403

<210> 20842

<211> 410
 <212> DNA
 <213> Glycine max

<400> 20842

agcttatgct tctaaaaagc tataggtaat gtaatgtaag aagcaagtgt atgatgaatt 60
 acttcatggt tctaattctc cttatttagtg attatctaata taacaatttc atgaaattaa 120
 cagcttcctg aatacattgg cattttcaaa gatcatgaag aaatgatgata aggtgaaaat 180
 tcaattaccc ttcacttcat tttactcatt taaactttat tatctgtact atcacttgac 240
 atagtaactt cataattcag atcacgtcaa gagatgcagc tgaagcttat atgagaatgg 300
 tggacaactc ccaccttgga agttctgatg aggtgagagt gctaataaga aagtctccca 360
 ttgagattca ttattctttt acatgtaact tctatacacc gttagttaa 410

<210> 20843
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20843

agcttgatat aacatagtca aggctgtttc cactatatgt ccgtgcttcc tttctaccag 60
 accatcttgg tgggtgtgtat gagggcatat gagtctatga ataataccaa gctctgcaag 120
 atacttagta aaaggtctgt attccpctcc ccaatcagac tagacagctt taataggcaa 180
 attaaattga gttttcacca tagtttgaaa ctgtgtaaag ataggtagtgt tctctgattt 240
 atttttcaac aagtacaacc aagtgaaca agtgtgagca tcaacagaag ttacatagta 300
 tttataaaca gtgtaaata gttcaaaagg agttgaatac acagtaagag agggagagga 360
 gggaagttat gagattcgcc aatgcaacaa tgggaacaan agtcagaact t 411

<210> 20844
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 20844

agcttattaa agtccttact gatccacatt gggtatgtat gactgcattg aatgagatga 60
 cgtgcaaagt taggaattct aatttcagtt gttgcaattg atgcactcat aatcaagaca 120

ctcgagtgc t g a g a g a a a c a t t a t t c t t g t g a t g a a t g a a g c g a g c g t g a t c c c c c a t t g 180
 a t g t a t g t c a t a c t c g c t a a t c t a t t g t a t a t t a t a t t g c a t c t c t g t g c a t a c t t t t a t c g 240
 t g a a a c g g a a c c a g g c g c g a g c t t g t g a 268

<210> 20845
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 20845

a g c t t g t g a a a t c a a t g g a a t c c a a g a t t c t g t t t g a c a c a a g t c g t t t a a t t t t g t t c t 60
 t a g a a a t g t g a c t a a g c g c t t a t g t c a t t t c c a a c a a t a t t t a a t t a a a a g a c a a c c t 120
 a a a c a c a t t g t t t c c a g a t g a a c a c a a a t a a c c c a a t t t g t c c a a a t a a g a a a c c a a a a c 180
 c a a a t t t c g t c t a a a t g a c g g t a c a a c a a a a g t g t c t t t c a a t c c a a a t a a a a a c t a g t 240
 a c a t a a t a a t c t a a a a t g c c a t a t a g c t t c c a c c t c c a c c t a t t t a c c a t c t c c a a c a t a 300
 t a t c c a t c t t t c a g a a t t a a t t g g c t t c c g g t a g c t t a g g c a a c a c t g c a t t g a a a c a c t 360
 g a t g t t a g t a g t g g c a c c a g a c t c t a a c c a c c a a g t g t t t c t a a g 405

<210> 20846
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 20846

a g c t t g c t a c a t a t c a c c t a t g t t c a c c a c t a g g g t t c c t t c a g a t g g g t t t a t a t c t a t 60
 c c a c t c t c c c t t a t t t g a t c t g a c t t g a a g c c c t c c t a t c t c a t g t t g a t a t a a g a t a g t 120
 a a t a c a a c t c a t a t c a a t g t g c a t c c c a a g c c c c t c a a c t t g a t c t t c t a t a a c t t c t g g 180
 a g c t g a g t a a t c g t t t t a c c c a a c a t a t c c a a c c a t g a a c a c t c c t t c a t a c t t g a t t c a c 240
 t t c t t g t t t g t t c t t t t g g t t a c t t t c a t c c g a t a g t c t t c a t g a t g c a a a c c a t t t a c c 300
 t t t c a a a a t t t t a c c t a t a c c t c a a t t t t t g c t a c t g c a c a t g g t a a t t g g t a a g c c t a a 360
 c a a g t a c a t g g a a a a a g g a g a t a g a c c c c a c t g g t t t g c a a g t a a a c t a a 411

<210> 20847
 <211> 409

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20847

agcttgtaat tgaacaatgg aagatcttga gaaattcaat cggctctaac ttttcactcg 60
gaagtccgat tcaggcgc ataatattga gacgctctcg tgaaattcaa atggtcataa 120
cttttcactc agagggtccga ttcaggcgca taatatatcg agatgcacat aattgaacaa 180
cggaagctct cgagaaattc atatgggtcat accttttaac tcggagttct gatttaggcg 240
cataatacat tgagacgctc gaaattgaac aatggaagct ctcgagattt tcaaatggtc 300
ataactttta actcggagggt ccgaatcagg cgcataatat atcgagacgc tcaaaattga 360
actacggaag ctctcgagaa attcaaatgg tcataactnt taactcgga 409

<210> 20848
<211> 389
<212> DNA
<213> Glycine max

<400> 20848

agcttgatcc ttgaatcttg attcttgaat tcctccttct tcttgaatct tgaagtgttc 60
ttcaactttt cctcttgaga cttgaattga tcttgattcc atcttgaact catcctttga 120
ttgacctttg agtttttgtc atcacctttg tcctcatctt ttgttatcat ctttgctatc 180
atcaaaacat ctttgaatca ttcttgattc accatgaagc tttgcttcta cacacgcaag 240
ttcaacgaag gggatcttgt cttaaagaag gtataccacg cccagatgga ccatatggga 300
aaatgggctc caaactacga atggcctttt gtcgtgaata aggcctttat caggcggagc 360
attggtgctt gccagcatgg acaatgaac 389

<210> 20849
<211> 415
<212> DNA
<213> Glycine max

<400> 20849

agctttacat attgaagaag ctattcttga acttggtatg ggggcgagtc tctaacaatt 60
tcttttggaa atatattcct agactctaac actctgaatc cgataattag ttttaagggg 120

aatttttttag aataaaacac taaaaataga aaaggggtac tcttagtaaa tgaggggatg 180
tatttagcaa ttgccatatt ctagtgattt cacatcctca ttgctatcat tattcttttt 240
ttccaacttt tttttatata gaactctttt cccactttac tttcttgccg tccggatggt 300
catgcaatag agagaaattt tcttaattca gttttgacaa gatgtggtct attaatcttc 360
agatatccat atcgtctatg gaaagatctg tttttaaagc gagtttaatt gtatt 415

<210> 20850
<211> 410
<212> DNA
<213> Glycine max

<400> 20850

agcttatatc ctttggatcc aactttgttt aaggcttctt tgaccaaga atcaaactat 60
tagttctatc ttattctcat ctttgtataa aatcccatgg gacaagggtt tgaaggctct 120
ctggctctaa ctctaacaac cgaccagggtt gttggcacac aacattgatg ttgtcttggt 180
ttattgcata ccacacatgt cgggctacac actgtgtgca aaattggggg tcacatggac 240
ccatttcaat ccaatcaagt tgtaagtcaa aacatatac acaaacacat tgaccttcag 300
tatcatcttc atcactatca tcaatatact ctattgcata aaaccgacct ttagtaatgg 360
catcattctc aattgcatct ccatgtctag attgaccgtc agagatcctt 410

<210> 20851
<211> 311
<212> DNA
<213> Glycine max

<400> 20851

tgtttattta acaaaattgc ctcaatcatt tccaaatatt catgtgaatt aggaagcatc 60
aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg gggcaaaaca caccaaatga 120
ttatgatgat ggatggctca aattctcaca aaggtaaact catcactttc aaattgagct 180
ttcaaaacta tcatgacatg tagaggagaa tcaaggattt caagtcacaa aatgtcaaga 240
acttttattt tcaaaacaat tacctgttag ccaagtggcc tcagatatct taagaagggg 300
gggggggggg g 311

<210> 20852

<211> 408
 <212> DNA
 <213> Glycine max

<400> 20852

tggttatatca acaactgttt taagatattg taaattctat gcactttggt taaactacaa 60
 aatcattgct tcaaaagtta agagatgatg ggtgggagcc attaaagatg tcaaaaattt 120
 ttgtgttagt aatgttattg atattcttga ttttaatact caatatttaa gaactcgagg 180
 taagccccgt cataagaatg ttgacacttt tgtgactatg gagaaccgtt ttagatatga 240
 catatttaca actgccattg actttcaatt acaagagctg aataataggc tttgtgacct 300
 aacaatggaa ttaattattt ttagctcagc tttgagtctt aaggatgttt ctaaatectt 360
 caaagttgat tatatatgaa atttagttgc ataattattat caaaggat 408

<210> 20853
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 20853

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 aagaaataat aaacgctttc ctacataaat tcataataaa gctaacattg taaggaaact 120
 aaaaactcca acatttgatg gcataaggct agcaaggagc tatttaatta ctacactgaa 180
 cacttatatg atcacttttc agttaataat tatgcatgga atgcatgaaa tcataggcca 240
 ttatttcctt ccgttgctac aacttgcttc taataatgga caatccctga tgggtcaatac 300
 taaaagagaa gaaaccaatc cctctttatg taaggatata agttggtgag aacttgacat 360
 ctcatgggtt tcaagagatc taagatgttg aagccacctt ccatccaagc atttt 415

<210> 20854
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 20854

acccgggatg ctctcaggca cctgaagctg ctgcttttctg gaccatagta taagactggt 60
 aacctcctct atcacgtaca caagatggct ttaagcatat atacgtgcat gaaaaggaag 120

tatccaaatc tgtgagggac gagtactcca ctacaacatc agcctatcaa tccttattat 180
 attgttgaag gtcctaacga gacgtatgct tattctccta tacaacgaca actgcatcaa 240
 ctacaacaac aactgtctca acggggacat cagcgaattg ccgctcctcc tcctccttgc 300
 ttacaagagt taatgacgca tccgaccatc cataatatgc tcttatagcc tgagaccaga 360
 gcctctattc ccattctgac ggatctaattg tggcagatga ctacttattt g 411

<210> 20855
 <211> 79
 <212> DNA
 <213> Glycine max

<400> 20855
 tagtctttta tatatcggtt cgctgaatac tgaacatatg ttaacgctcg acatattcaa 60
 aggatcctta ctattcaca 79

<210> 20856
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20856
 ttgttgcaag cttgttctag aagcaactaa gtttttacat tgtataactc aaaatttcct 60
 attacgaaaa aaaataaatc tcccttatac ttggatgtct ttcgtatata ttttttcaca 120
 ttacaaatac tatctggtac aaaaaaaatt taaacagcta caaatgtaca aactttgttc 180
 acttttattt ttttttttag ttaagctaaa gtgtatgata aaaccaattg ttttaattaat 240
 cggatgaatat ggaataactt aacatttaat aattatgagt gtgtgtgtgt gtttaaataa 300
 ttattacatt tcataatctca atttatttca aaaaaattac agtaaaccct tatgtcctcc 360
 ttaaataata ataataatga taataataat t 391

<210> 20857
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20857
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tttaaagtct taattaatgt agttttaaaa ggatgttgat ctctccattg cgtangcaag 120
 agcaagacaa cgcttaccaa acaaaaaccg ctcttaattt ttaaaacata taataaaatg 180
 ttcccttatt ataataatca aattgacttc aattagcata aaaataatag ccttttagtgg 240
 gacaatccat agtaacctag gaaactcagt acaatacac attaaaaata caaaagccca 300
 aggatataat atgcttcaaa tatttgtttt ccacactcaa attgccatat cacgggtgaa 360
 taagtgaatt caaaccaaga tctaaacaaa nagctatc 398

<210> 20858
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20858

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
 gtggatggca cctcctctca cctcttctca tttgtcttcc gctgcatctc catggtggaa 120
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
 gcaagcttcc atcacaagat accttggaaca cgcattgtata tggcaaaata gctcacaaaa 240
 tatacgtatg tttaggtagc aaaatacctc aaaaaaaaaag agagagagca aaaagagagc 300
 gagcaagaaa agaataagaa aaaaataata ataaaaagtt gtctagctaa aaaacaacat 360
 gcttgtgaaa agagataatt tccaactttt ctttgaaaga ttntactgat cttta 414

<210> 20859
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20859

agcttgttat tgaacaatgg aagatcttga gaaatgcaat cggctcttaac ttttcaactcg 60
 gaagtgcgat tcaggcgcat aatatatcga gacgctctcg tgaaattcag atggtcataa 120
 ctgttaactc agaggcccga tctatgcgca tagtatactc agatgcacat catggaacaa 180
 cggaagctct cgagagactt atatggacgt gacctttaac tcggagtctt gattcaggca 240
 cataacacat tgtgacgctg gagatggaac aatgaatgct gtcgagactt tcaaatggac 300

ataactgtgg acgtggaggc atgactcggg cgatgagata tagagacgct cataatgaac 360
 tacggaagct ctctagaaaa tgaatggcac ta 392

<210> 20860
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 20860

agcttgattg aacagtgcac ttatattatc cagtgggtga tacttcattt tggaattcag 60
 tgtttgtaat tggtttgaat tgatcaattg cgtgatttga gtgaattgga atgtgtagat 120
 catgtgccat gaatgagcat gcagtcatta gaagagaaaag aacattgaat taggatcatg 180
 actaaaaatg ttagttgggt tgtcaagttg attgtgaagg aacgcattag ccgcaacccg 240
 gtgaaagtgt gatctttaat tgtgagagaa tgactaacat tgagtaatga ttcttgcattg 300
 aatatctgag tatggaatga atgtgtgaaa ttgaagatga tgaaggccat gtttggattg 360
 aagatagcca cttatctaaa aagcttacct tgtgcatgat tgatttatcc ct 412

<210> 20861
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20861

agctttttta catgcatgca tcattcccag tgaaaattaa gtcacaaaca taaaaactca 60
 caattaaaat tcttttacct cctcctgttt tgacaaagag agtgtgctca tgatcgcatc 120
 gttcaaatcc ctcttcaca aaataggctt caattttgct ataccaagca cgtggtgctt 180
 gctttaacct atataaagct ttcttaagct tgtagacctt ctcttcttca ccctttcgaa 240
 cataacccgg tgggtgttcc acatacacgt cctctgtcaa ttctccgtga agaaatgcgc 300
 ttttgacatc tagttgatac acattccatc ccttttgtgc tgctagagct aaaaccatcc 360
 ggattgtgtc ccaccttgct accgnggcaa acacttcggt gtagtcaatc ccttg 415

<210> 20862
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 20862

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggca cctcctctca cctcttctcc tttgtcttcc gttgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatccag ctttcataga agccccacaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattaatt tttttgcttt accttctctt ccattgttgt ttcttcattt ttctccatgt 300
atctcctcac atgtcttgtg ctaaagtgtg ttaacatgat tctttagatt ttccaccgat 360
taaacttgct atagaagcta gatttgattt tctatggttc aaatttctt 409

<210> 20863

<211> 402

<212> DNA

<213> Glycine max

<400> 20863

ctgcagctta ttgttgcccg agtcattcat ccctatgaga tgttggtgaa gtattggcga 60
tcagaattgc cattcggttg attatagggt tgaaccaagc tcatgctttt acaaaaaggt 120
tcatcaagtc aagttgaaat atggaagtaa ccgtcttgca aaattggggc aaaagatgaa 180
tcgagtcaca tcaactgctt gtctactgcc aaacatattt aggattattg atgtccttgt 240
tacttccagt ttcaccttga caaagatgtc atggaccatg ttgaaaatct aaattgattc 300
aaccocatat cttgcgtaaa aattcgcaat acttcaactg tacatcattc gcatacatcc 360
atgcttttca ttggttgcat tgctcattgc attctttcct tg 402

<210> 20864

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20864

agctttatac tttgttttta gaaggtaata tatactgtct tgatgtccta tatttttata 60
atagcctgta tcaagtcaga gttggtgctt catatctcat ggcattgaaa cttgccacct 120
gtcatttttaa gagaatcttg ctcaatgtaa tattgtaatc tcaatctgca aattgcaaaa 180

taggtgcct gcatgccaat gatacttgat tgagtaatga ttgatgaaca tctggtaact 240
 ctaaacacct cattaacacc tattatcttt ctctcccat cacatcatat caattaccat 300
 agctatatatt ctttctcttc tcttttattt ctctctctag gtgtcatcta gaggggacat 360
 gtccactaac aatntttgga ttttaatttcc tattntcttc tttgttcttc a 411

<210> 20865
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 20865

agtttgtgtc acaattcact gtgacagtca aagtgtcatt cacttatcaa atcaccaa 60
 gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120
 atctgagaag gtgaagggtg agaaagtttc aacagaagaa aatccggctg atatgttcac 180
 aaagtccctc tctagtgtca agttcaagca ctgcctggac ttgatcaatt tcgaagatgc 240
 ctaaagcagt ttggtagaag tgcagcccta aatcacaagg aagacacttg ctgatttgga 300
 gtcaagggtg agatttgtgg tgtgtgactc aaaatcacia tttgcacaag tgagaaggct 360
 ttaaagtggg gttgtcataa atgttatcaa gtattataac tgaattg 407

<210> 20866
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 20866

ctgcagtctg tttcggaaac agcacaaacg gaacacccat gaaggaagga gcgctttgag 60
 gaaggaagaa gaaaaacaat agcggcagac tatgcagagg aaggaggggt ttttaaattt 120
 taagtgaata acattttttac cattccactt aaattactgg atgtactagc aataatagt 180
 ggtgcacatt ccacttaaata tactggatgt actaacaata atagtgggtg cacctagagc 240
 acccgaataa cttatatattt tcgcacccct tggatcaagt tctgaaagtg aaatatggat 300
 ggatgcagag atgtgtctat cgtgataata tcaattcatt tgaaaaatat acacgtgtat 360
 ggtgtgtttc tagaatgtca ttacccaaaa ctcattatgt attgatgaaa tg 412

<210> 20867

<211> 414
 <212> DNA
 <213> Glycine max

<400> 20867

agcttgtaca acatccatgc aaaacaacat tcaaacagca caagctatca cagccaagca 60
 aagacagagc aaaggcggaa aactttgcc aacaccaac caaatcacia cttttctcac 120
 ttaaagaccc cagtaacaat tccttcgac caattcgta accgttggat cgactccaaa 180
 attttactgg aagtctatag tacatgaacc tacattgtga ccgttgggat ctactagcaa 240
 acatccagaa ctcattctgt actactcttt ccacagccaa ccacacacia gcatttttct 300
 gcacaaagcc aaaatcctgc tgcacctatt ttgacagcaa aattctgcat aagtgcagat 360
 ttcgaaaatc acacttcctt tcatccaatc ttgcccaaat caaatgctac aagt 414

<210> 20868
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 20868

agcttattcg taacaaaaag gaagatattt ttcttatctt tccaaggact actcacacgt 60
 tcaatttgaa gttatttagt gtcctctaag cactgcacia ggcaaatagg tcaagtaagc 120
 aaaaaatatg aaatttagct ataattctca attaattctca atcatatttg cctaagacca 180
 aaactgaatt aaggtagta aataagagtc aaggagatag caatgagcta agaagaatat 240
 aaaaatattc aacaacaaat gctcaatcaa agtctatctc ctatcatcag ggcacccacc 300
 aagatcgga actgtgtacc ctacaacctc caagttgtca actctcatat acacaagcat 360
 agactcctta gtcttctaca agtacctcat caccttctta g 401

<210> 20869
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20869

agcttccttg agacacttcc ttgagaagct tacatgagaa gattcctaga gaagctagag 60
 cttagctaca cacacctctc taatagctaa gtgcacctcc ttaagatgag aagctagagc 120

ttagctacac accccctata atagctaagc tcaccccatg acaaaatata tgaaaatata 180
 aaaaaagtcc ctactacaaa gactactcaa aatgccctga aatacaaggc taaaacccta 240
 tactactaga atggccaaaa tacaaggccc aaaagaagga aaaacatatt caaatattta 300
 caaagaanag tggatccaac cttggcccat gggctcagaa atctaccctg aggatcatga 360
 gaaccctagg gtcttcttta gtagctctag cccaatcctc tt 402

<210> 20870
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 20870

agcttattta tagtgatata tatggtggtg cacatggctg tttgtgtttc aaggaaatta 60
 aattgtacac taattctata ctctactttt aaaatttcca caatttagta ttcaactttt 120
 aaaatttcat gcattattcc ttattaattt taattaagta attttttgca ttgaaaataa 180
 tataagaaaa accaaaatac aaaataatta ataaaaactg attacatgag aagtgaaggt 240
 aagttgtatt tgaaaacatt gtttttataa ttattttttg gttttatttt tgaatcttaa 300
 aagaatatgg tgaacaacat agaggagggg tggaaggaaa aataaataat ttggtgagat 360
 tgcgcactaa agattaatac aaagactata aaatataata catgataaat cacttg 416

<210> 20871
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 20871

agctttatgc tgcacaattg ctccaggttg ctgcatggaa gggcaaaggt ctgtatggtg 60
 gtcagcaaag gagcacacaa accacaaact cttgcgacag gaacagattt ctgattcaag 120
 gccagctggg ttactaagtt aaccaatgca tccagtttgc cttcaagctt cttagtttca 180
 gatgatgcag atgggcttgt agctacctca tgcactcctc taatgactat ggcattcattt 240
 ctggcgctaa actgttgga gttggaagcc atctttctcaa ttaaatttct ggcttcagca 300
 ggagtcattg ctccaagggc tccaccactg gcagcatcta tcatacttct ctccatattg 360
 ctgagtcctt cataaaaata ttggagaaga agctgctctg aaatctgatg gtggg 415

<210> 20872
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20872

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 gcaaaacgat tcttcacatc cacaaatcac gtataaccca ccatcccttg ttgcccacct 120
 ccaactgagc tcacgtactc ccacgtagcc cttatcctca ttcctctcaa cgtcgggtcc 180
 ctatcaatcc tcccaagctt ccacaacatc caggtaattc cacctccaat catcatggac 240
 taacaaaacc aagcaaaaca gggcaaaggc agaaaactct gcccaaaata caactcataa 300
 tcatagtagc ttttcacata caaatacccc agtaacattt ctttcgttcc aattcggtta 360
 ccgttggatc gactcgaaaa ttntactgga agtttctagt acataagtct acat 414

<210> 20873
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 20873

agcttggtat tggacaacgg aagctctcga gaaattcaaa tggtcataac ttatcacact 60
 gaggtccgat tctggcggat agtatatcga gaagctcgga attgaacaac gaaagctctc 120
 gagaaattca aatggtcata acttttcaaa cggaagtccg attcaggtgc ataatatatc 180
 gagaagcttt aaattgaaca acggaagctc ttgagaaatt caaatggtcg taacttatca 240
 cacgggagtc cgattcaggc gcataatata tcgagaagct tggaattgaa caacggcagc 300
 tcttgagaaa ttcaaattgg cataacttat cacacggaag tctgattcat gcgcataata 360
 tatcgagacg ctcgaaattg aacaacggaa gctctcgaga aatt 404

<210> 20874
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 20874

gtagatgaa aattagtatt taatgcaagt aaggttagaa attaagtgtg aataattaag 60
 gttgataaat cgtgatctag atttcataga attagaaaaa gggtaattaa ataataaaag 120
 tttaaagtgg agggcatttc gtaaagtatt atacaacttg tcttaaaata gaatttttagt 180
 ttattttatt ggtgactaat taaagtgttt gattatatga tatagaattg tgtgtgtgtg 240
 tgtgtgtgtg tgtgtgctg tgctgtgctg tgtgctgtg cgtgtgtgtg tgtgtgttat 300
 ttttctattc ttcttagctc aatttacatc tctttgatcc ttactttctc actttactta 360
 gttgtgatct taggcaaac attgagtttg attaataatt gcggtttat 409

<210> 20875
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 20875

agttgtttct tgagtcacatca agagattata aatatgtgac catggcatga gttttaatcg 60
 ttcatcaatc atcaatcaat aatcaatgat ctatcatcta tcctctatca tctatcatct 120
 atctttcaat ctatctttct atatcttctt ttatctcttt caacagatct ttctgaatta 180
 tttctcttca tctttctaaa agtttttggt caacactttc tcttccaaga aaagttcttt 240
 gttcaaaaac ttgcgtatt catctttttc atctctctct tcctttgcca aaagaacaaa 300
 ggactaaccg cctgaagtct tttgtgtctc tctcccttg ccaaaagaac gaaggactaa 360
 ctgcctgaat tcttttatgt ctctcttctc ccttcaaaaa gattcaaa 408

<210> 20876
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 20876

agctttcaac aaaagttttc acaaataatc atcacacagc agaaacctag caagactacc 60
 cataatatct cccaaaaccc catacccacg aaaatcaaga gggaaagaag tccacccaaa 120
 cctgaatttt cgaagtccca ctgtagcca cgcacttcac gaccccgaaa atgcccctct 180
 ttgcgatttt ggagcagaaa tgagtaccaa aggttgagc tttgttgggg tttcaatgga 240
 gaatgagggg ggagaaaatg gcaacgtgag agagagagag agctgtctga aaaagtgtgg 300

gggctgagtg atgagagaga aaagcttttt ggttttaaat aaaaggtttt cctctttttt 360
 ttttctatta ttttattcaa gctctgccac atgtccctat ttgattggag ca 412

<210> 20877
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20877

agtcttttta taacttcctg caccacatgt accttcacct tctacttcca ccttgatggt 60
 cttggctcttg ctagtacagc atgaggctgc aaattccgtt gaagcacata ccaatctatg 120
 attgtgcagc tgagtgatgg cagtttgtct gtcataggta acacaatttt taataattaa 180
 tatattttta tgtcttctat atccttttga tgctttaaat ttggaaaatt actcttggcc 240
 ccctaaattt aaagtgatta atttagttct attaatgtga aaatgacca tttttttgta 300
 ctttataggg tttgttggga taaacttctc aaaagaagta cttataagag aaaaaaaaaac 360
 aactaaaaat gaaataagtt nttccattag ttaaaatag 399

<210> 20878
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 20878

tgtctttttg tgggtcttgt tcttcacata aataattaaa tatcactgcc taccttctta 60
 gtttctttcc tgattgattg ctggcattag cataaactat ttttgcttca tgtggttcca 120
 ataaatcggt agaactgctg tttatctgaa gtaatgcatt actaccattt ttttctcact 180
 aatgcatata ttgttcactt agattcataa tacacagggt ctggtgccaa gatgagtcgc 240
 gattttaatt gcattcaaaa acttttttgt cagtgtcttg ttagctatca ttgtacagct 300
 caatcttcgc cattttattc atgattctta gatctttggg gaatatcaca ttctcaatgg 360
 aggtgttcga cttttacgtt ggattgttgg ggatgggtcg cacac 405

<210> 20879
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20879

agcttctcaa ggaagctacc tagtctataa atagaagcat gtgtaacact tgttgtaact 60
ttgatgaatg agagtcttgt gagacatact tcaaagttcc acttctctac cactttttatt 120
ccttcaattt cgtgctcccc cctctctect tctctccctc tttcttttcc tccattgaag 180
catcctctcc aaactttctta tccaaggctc atcttggtgg tgaagctcct tcttccatgg 240
cttatttcct agtggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcatct 300
ccatggtgga aaatcaccat taaaggacct cattgaagct canagatcca gcctccatag 360
aagccccaca agcaagcttc catcataact ttac 395

<210> 20880
<211> 402
<212> DNA
<213> Glycine max

<400> 20880
agcttggttaa gatcccaatc catcccatc cagacatctt taacctttag gatagaatca 60
tagatatgca ccaaaggaac ttgcccacaa agaggctcct tagaagctag ttccaccatc 120
ccccacctta aaaggcgaaa ccacacctta gatccctcaa aatctcaacc cgaaacttag 180
ttagggagtg cattaagtcc caaaccagtt ttccatgaag agcagtattt tgagaacgag 240
ccagcctaac acccaggccg tggctactcc tccttttggg aatagtcttc cagttaacaa 300
ggtggagacc cctactcgta ttctcttcc aaataaatat tatcacagtt ttatgcaatt 360
catcacaac aaacatattg aggggtaccag ttcaacctgca tg 402

<210> 20881
<211> 397
<212> DNA
<213> Glycine max

<400> 20881
ttgcttgcaa gctttttaac agatttttagt aatgaccac taacctagaa ttaaataaac 60
ttaatgcat taacctatgg aattaaaaa acttaatggc tgagtgtaac tgaaattgtg 120
gcaacaaaa gtcaccccca acagccaaca agtcagccac catttggctt cccaaaaggc 180

tgatgcctat gttgccaatt gggcccttat tacaacttga actaaaccta actaaagccc 240
 ttttagttga ttaacccaaa acatattttt ggtcagccaa ctttacaagg attgggcaat 300
 tatttagaca aactaaacac tctaaaattg aaactaagtg gtgtcattta gtcctcctcc 360
 atttgggcca tgatacaact cacaaccttg gattttc 397

<210> 20882
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20882

agctttctag cttttcattg gtgtattttg atctcctttt ggtgctctaa attgtgggag 60
 tgtgctcaaa tatatggggc aattttgatt tgttttcttg cttgattagg ttgaattagg 120
 ggttggtatg agatggccct aggccataa tgcattttga aacaatagga catgccacat 180
 tgtccccgtt ctcttgctat tgatgcctaa acgcgcgccc accaagtgtt cggtgaaatg 240
 cctcaatggc attagcgtgt gacttttgta aggagacaac ccatggggta ttttggtttg 300
 tgcataattt ctattttttt ggaatatgta ttcattcccg aaaaaggcta gagtaattgc 360
 cccacatata tcctagtcct agaaactgaa attntatgca aaaagagcac aaaag 415

<210> 20883
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 20883

agcttgtaga ttggctagac atgatacatg tcagggtttt ggtttggttc aaggataaaa 60
 gggacgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaactttatg 120
 caaaactggt catgcatgca cctatgtgga cactcaagtg tcaaattttt atggatcatg 180
 gatgctaggg ctgaggatc atttctcca ttttagtcaa cccaatgttt ccaaatatg 240
 ttcttttatc aatttggtgca ttcattccgag tccatttttg gcgtccggtg aaatcttcac 300
 agcattcacc cttcaggtgt atacacattt tttttcaaaa actagctatg atcagcgaat 360
 tttcttttca aagaagagtt ggaagtcac tcttttcaaa agcatgttgg 410

<210> 20884
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 20884

agcttaagct tgttgagatt attatattat tacatatttt ctttaaaaat acttaaatgt 60
 attattaatt aaacacaata aattataaca ttattaatta ttgaaagta ttaaaaaatg 120
 gaaagaaaaa aaaaacagga tcaaaattcg gggttggtatt cttaacctga ttttgacaaa 180
 aaaaaaaaaa acaagggagg ggactgagat tcagtgtgtc tgtaacaaat tctcacctg 240
 aataacaaaa atgtctaatt aggtaaataa aataaaaaatc tcgaagacct ttcttgaata 300
 gttagagagc ctaatgaaaa cacaaaaatt actttttaat aaagtgtgaa ttttagaaaa 360
 taaggtcacc ggtattttgg aacttcttag atccaaagac caataaatc 410

<210> 20885
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 20885

agcttctact tatgtggcag ggcgggcttc cttcactttc ttgtctccaa cgcgagcttt 60
 gaccactggt cttccttccc gcgatgcttc ttttcatgtc cgcttgagtg ggcttatagc 120
 ctaaaccata cttcccaega tttccttggg tatttatcag gctagttatg ccgccgttgt 180
 ctttgccata acccatcccg gggtcataac cggtccccaata cataactcgg gccatcatta 240
 ctgctgcacg ggatagacaa gggtgcccag agagggagtc cacggaggaa atgctgacca 300
 cctcaaaaga ctggaaagcg gtttctaacg attcttctgt ggcttcacaa taaggcatag 360
 aggatgggca gcttaccaag atgtcttctt cgcctgacac 400

<210> 20886
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 20886

agcttgtatt gattcagtct aactagggat caaggtttgt agaagtaagc ttcattgatga 60
 tgaatcaaga ttgattcaag gagttttgat gataacaaaag atgatgacaa aaagcccaag 120

ataatgagtt caagattgag tcaagaacac ttcaagaatc aagagaaatt tgatttcaag 180
 attcaagaat caagtttcaa gaatcaagaa tcaagaataa tcaagttgaa gattcaagaa 240
 tcatgaaaag actcaatcaa gataagtact aaatTTTTTT tcaaaacatt gagtagcaca 300
 tgaatTTTTT acaaaacctt ttaccaaaga gtttttactc tctggtaatc gattaccagc 360
 ttattgtaat cgattaccag tagcaaaaat tgttttcaaa aagctttcaa ctg 413

<210> 20887
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 20887

agcttgtatg tcttggatct tcttcacaaa tggagtaatt tgcttcttga agatcaatag 60
 cagcgtaatg gagatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc 120
 aagaaaaaac tcaccaccat aggaagtcac ggataagagc ttgaaggtag gagaagatga 180
 atggaggaag agggagagaa ggagcacgaa attttgtgcc tcaaagtga tttcaacttt 240
 gaagtgtgat tctcaaatta tcaaagttga aaaaatgcac atacatgacc tctatttata 300
 gcctaagtggt cacataaaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat 360
 ttgaaattca tgaatttgtg gagccaaagt ttggagccaa aatttcacta att 413

<210> 20888
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20888

agcttgtatg attatggggt acccgtcata tgtggtagt ggtagcgatt gggcgatggt 60
 gaaagtcaac tctccacatc cacaaatcac acataaatcc accatcccca gttgcccacc 120
 ttcaactgag ctcacgtact cccacgtagc ccttatcctc gttcctctca acaccgggtc 180
 cccatcaatt cctccaagct tccacaacat ccaaacaatca tgaactatcc aaaaccaaga 240
 aaacatggca gaggcataaa actctacca aaacacattc aaataccaca gttttcttca 300
 ctcatatacc ccagtaacat gctcttcggt ntgattcgct aaccgttgga ttgaatctaa 360

aattntactg gaggtcccta gtacataagt ctacattntg accattggga tctg 414

<210> 20889
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20889

agcttatttag aacaaaattg cctcaatcat ttccaaatat gcatgtgaat tatgaagcat 60
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120
attatgatga tgtatggctc aaattctcac aaaggtaaac tcatcacttt caaatcgagc 180
tttcaaaact atcatgacat gtagaggaga atcaaagatt tcaagtcaca aaatgtcaaa 240
aactttttatt ttcaaaacaa ttacccatctt cttgaacatg tcctataatt caaagaaaaa 300
cttgcaaagt cgtacatgcg cacagaattg acccanaata ttaaactaaa aatccgacat 360
gtttgcggaa cttcacggga aggttgcatt ccacgatata atgggtccccg aa 412

<210> 20890
<211> 370
<212> DNA
<213> Glycine max

<400> 20890

agctttttcgc aagacttacg gaaagatctt agagttgacc atagcagagg tgtccataga 60
agccattgca gcacttacc aatactacga ccagcccttg agatgcttca cattcggggga 120
cttccaatta gtaccaacca ttgaagaatt tgaggaaatt ctaggatgtc ctctcggggg 180
aaggaaacca tatcttttct ccgggtgtct cccctctttg agcagaattg caactgtggt 240
caaggattca gccagaggtt tggaccgcat aaaacagact cggaacggca tagcgggcct 300
gccacagaag tacctataag acaaggcgag gggatatggcc aatcaaggag actgggtccc 360
gtttatggat 370

<210> 20891
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20891

agcttgctac ttgaggaggg agganntn ngcttcttga atatcaatan caacgtcatg 60
gatatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc aagaaataac 120
tcaccacat aggaagtcgt ggatatgagc ttgaaggtag gagaagatga ttggaggaag 180
atggagagaa ggagcacgat attttgtgcc tcaaatgaga tttcaacctt gaatggtgat 240
tctcaaatta tcaaagttga taaaatgcac atacatgacc tctatttata gcctaagtgt 300
cacatacaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat ttganatgca 360
tgaatttgtg gagccacagt atggagccag aatctcact 399

<210> 20892

<211> 355

<212> DNA

<213> Glycine max

<400> 20892

agcttatctg ataatatctg tgagttctac actctaacct atcaatatct tctatgtatg 60
ttaacttttt ttctgctatc ataagtaatt gatgcatttc atgtgtgaat gctaacaaac 120
tgttctgcca gaacctgcca aatgtttgtc ttggcattct aaacggctgt gaagtaaggt 180
tggatgaact gaatctagat ggaggtagga attttgttgt gttgttacca tctcttttct 240
tctagttccc ataccactcg cattacaatt cctaacttca tcagcagttt tcatcagaat 300
gatgtgtaca ctctgcacta tgtaaactct ggtatttatt ggttatgcag acata 355

<210> 20893

<211> 396

<212> DNA

<213> Glycine max

<400> 20893

agcttgttat tgaacaacgg aagctcttga gaaattcaaa tggtcataac ttgtcacacg 60
gaagtccgat tcaggtgcat aatatatgga gacgctcgaa attggacaac gaaagctctc 120
gagaaattca aatggtcata acttttcaaa tggatgtccg attaaggcgt atattatctc 180
gagaagcttg aaattgaaca aaggaagctc tcgagaaatt caaatgggtca taacttatca 240
cacggatgtt caattcatgc gcataatata tcgagaagct tgaaattgaa caacggaagc 300

tctcgagaaa ttcaaatggt cataactttt cacacggaac accgattcaa gcgcataata 360
tategagact ctcggaattg aacaacgaaa gctctc 396

<210> 20894
<211> 398
<212> DNA
<213> Glycine max

<400> 20894

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tgaaaggaat atcataatgt gtaggtgagg gtggggatgt cgtcatgagt atacacaatt 120
gaaacaaata caattagcag cacatgtcag ttatataaac atatatgtca acatgataaa 180
aaatgtatga caacatcact tttaacatct cagatataca acataaatgt cagtcaaaca 240
aacaataaaa atgtacatta agttgaatga aattcaaata cataaatgta ttacaattat 300
gcaataggtc atatacatta tcaataaaaa cataagcagt tacatttgat tattctccca 360
taaaccttca taatgatcat ttctagttgc atgtacaa 398

<210> 20895
<211> 395
<212> DNA
<213> Glycine max

<400> 20895

agcttttattg tgttcttttg ttaaggctat gcgtcttttg ctcttgatc tataatataa 60
agatctttct ctcactgtt cctgcgtctc taccattct catccatctg catgtttatc 120
tctttatgtt taaaacgcca gatccgacga cgagtccctt gaaggacta atacctgaga 180
cccgcccatc gacttcgaac aagaaacgtc tcagacataa tatgaagagg acgaggatgt 240
gagactttcc tcggagtcgg aaaggatagt cgcccaggag gaccataaaa tggggcatca 300
tcaacaagag acagaactag tataacttggg aactagcagt gtataaaggg aagtatagat 360
atgcacgagt atgaccacac ccatccgca ataat 395

<210> 20896
<211> 395
<212> DNA
<213> Glycine max

<400> 20896

agcttgtaga atagttaaac gacaacaact tttgactcgg atatccgatt gtgtctcgta 60
agatatcgag acgctcgtaa ttgaaaacgg aagctctgag aaaaatcata cgacaataac 120
ttttaactcg gatgtctgat cgaaccctgt aatatatcaa gacgctcgaa actgaaaagg 180
gaagctctaa gaaaagtcaa acgacaataa ctttttactc ggatgtctta ttgagccctg 240
taatatatcg agacgtctta aattgaaaac gaaagctcta tgataagtca tacgacaata 300
actgttaact cggatgttcg atagagccct ttaatatac gagacgctcg aaattgaaaa 360
ctggagctct aagaaaagtc aaacgacgat aactt 395

<210> 20897

<211> 478

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20897

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atcctctaca gtcggcctgc aagcatgtct tcttgtgcgc atanntgggg tggggtcgag 120
gaggcaggcc ctacattttt ggttccaaaa cagggaaagc tccgatatat tttcaacgca 180
gtttaactta cctagaatat ttacctgtac aaacatagtg tatttgtcac tcacatcaca 240
cacctctgct tggatacatc tacgtacaag catatctaaa gctttttggt gcccaaatat 300
cgccatggtg cacatcttgg tattctaaac acctatacaa acttcatgat gaatatcgtc 360
tatctactct ataaagagct cctctacatg ctcattaaag actcttgcta cctaaagccg 420
catgcagggc caagtatttt taccttcgct gactaaaata gaatttatag gcatatct 478

<210> 20898

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20898

agtccttttta gtcataacct ctgcagttga agaattgggc ttcgagtttg gacttttgtt 60
ttgtgtaatt agtttagtta gttaattagt taggtagtta gttagttact agcactctat 120

atattagtgt tagatagtta gttaaggact agaacttcat tngagaaaac acttctctag 180
aacttcattn tgtacaaaac ttgttggtgca agctctcttt ctctttcttt ntctctcaat 240
tggttcttcat tcttcttcat cttttcactt ctgttccacc atttccttac acaaatttca 300
tggtttctcc attggtgatg attatggagg gctaaacaat taaccaatcc aaggatccac 360
tccaagcaaa gctgaatttg agccct 386

<210> 20899
<211> 388
<212> DNA
<213> Glycine max

<400> 20899

agctttgatg gtgcgtagcc caccatcttt tcatagtaga gtatcgataa tgtgtctacc 60
atcacgatca tcgtctccct ttccatcatt gggggtagca cctgagccgc cagatccctc 120
caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtaattg 180
catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattaa 240
gtccttccaa gaatggactc gggaagattc caagttagt taccaggtaa cagctacccc 300
agtaagactt tcttgaagg aatgtattag caattcctca tcttttgctg attccctcat 360
cttctgacaa tacatatata gatggttc 388

<210> 20900
<211> 396
<212> DNA
<213> Glycine max

<400> 20900

agtttttgtg atatatttca ccagagacgc agctccccaac acacctcagt acccctcagt 60
agttagactt gttccattcc cctacaaaaa caaccaccca gttccttgga ggtatgcgcc 120
tccaagcgaa aggaaggaag aagccacga catcagctcg ttgtcaacca aggtaaccaa 180
tatcacgggg ctgagtggcg taacctgcag tggtcacatg ttgcacccc ccgacctgcc 240
aacaccaccc gcaaacgtta aagggaaggc gaaggtagcg gaagaacaaa gtgacaaagt 300
gatccctact ctggacgagc atattccagt aaaaagtctt tcggcgaaat gggatggcta 360
tggaagaaa gaagtatcgc tagaggaggc aggtga 396

<210> 20901
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 20901

gcttggtgta gatccattga ccatagccct tgcgaatgca acactagata gatgtggcta 60
 atcgaggcat cctgcctgtc atatgctcgc gctagaacac actgatgtgc tttttctctg 120
 aagcaatatg ttgctaagtg tcagaacgaa gaccgtttga atgaattcgc gtacgatgcg 180
 aaatctatta atgtgccccat acttgatgaa ttctgcacct gctttcttag acatcattac 240
 gctatatgtg gagtaactgg gctgagcgtg tgattgatga ggtaccagta atcgccagcg 300
 gatg 304

<210> 20902
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 20902

agcttatgaa gggtgcttaa tatctccaac agaattactg caattaatcc ctaatattta 60
 taattagctg acagtctgat catgctgata tatatcaata agttaaatgt gatagtata 120
 ctgttgata tattaacta cattgagatt tggcaaaagc aaaaagctat taaacaatgt 180
 cttgtgttg atctcattc aagaaacagg tttcaacttc tgtacaaaac agaaaatcct 240
 tacaataaaa gaaaacagct tctgttcaaa tttgcctcat cttatctgtc tgtgtctcca 300
 ttagcatgat ttacaggtca ttcaaatgac aggcgacagt taggaactca tccttcttac 360
 atggtattgt gagaccacc attgcgtgc 389

<210> 20903
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20903

ttgcttctgg taaagctcat atatgttctt aaacaatttg ccaaagggat catctctagc 60
 aatgatattc gacctatgac cagctttaac ctgtttcttt gtcttttcta tgaatcctat 120

attgttaatg aaaataataa ttaacctaat gtttgagttg gagtttttaa cactacaaca 180
 ttgtattaat aatgttaaag aaaaataagt acttcatggg atacaagttt cacaagatgt 240
 gtcgaccatg caatgaatgt gtcaagggct tgcctgacat actaaatctt tgacgtcaaa 300
 aaagggactt aagtgtcacc attgtaaact tttgcaatac tcaccttcac cacatcatca 360
 ccataaggca cgttgtgtat ggtggatacc 390

<210> 20904
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20904

agcttgtatg tgtactgnga aagattcaag aaattgtgtg caagctgccc tcaccaccag 60
 atttctgagc aacttcttct tcaatatttc tatgaggggac ttagcaacat ggagaggagt 120
 atgattgatg ctgctagtgg cggagctctt ggtgatatga cccttgctga ggctaggaat 180
 ttgattgaga agatggcttc caactcccaa caattcagtg caagaaatga tgctattatt 240
 cttagaggag tccatgaggt ggccatggat tcatcttcat ctactgaaaa taaaagctt 300
 gaaggaaaac ttgatgcctt ggtcaacctt gtaactcagc ttgccatgaa ttagaaatct 360
 acacctgttg catgagtctg tggcttatgt ccttcttt 398

<210> 20905
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 20905

agcttgtttt ttaattattt gtatgggttg gatgttgaat tctggttggt cctggtgcgg 60
 agatgatggg acagcgggtg aaccagaagc ggaagtttct tttggtgagg aagccatgga 120
 aaaacagagc gtttggaaatg atttcataaa tctcagaaaa ctattgggaa atgctggaga 180
 aaacacgaat gcctagcaga tataaatttg aatgaagaat gtagaggggc gtgtgaagca 240
 acggtcgaat ttgctttgtg gtgaacgtgc tattaatggt aagtgattcg tttgggcacg 300
 ttcagattgc agtagctgct ataattcctc tagcaaacia atgccagct tgcccctcag 360
 tttttcaaac tgatttgcac ccaaagcctt tgtg 394

<210> 20906
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20906

agcttggttt gtgttatgac tccattgatg ctgattatga agttttttga gattgtctgt 60
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 ttgtcaatgt ctatgacctt tccaaagtta gaaattatac ttgagaggca ctttgtgttc 180
 catgtagaga aaatgatatt gtagcatcta atccacgtca atctattact tgtgtgagtt 240
 gattcttccc atttttgcac tgatttaaag attgaaatga agtttctttt tcatgttcta 300
 tgcatagact gagaacctat tctcataca agccagatac gagtaccana tctccagcat 360
 tatatctcat aaaaacctct tggtttcctt ccat 394

<210> 20907
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 20907

agcttgcttg tggagcttct atggaagctg gatctttgag cttcaatgag gtccttcaat 60
 ggtgattttt caccatagag atgcagcgga aggcaaagga gaagaggaga ggggaggcac 120
 catccactat ggaataagcc aaggaagaag gagcttcacc accaagaatt gccttgata 180
 agaagcttga agaggatgct ttaatggagg aaaagaaaga gagaaggggg gagcacgaaa 240
 ttcaaggaat aaaagaggga gagaagtgga actttgaagt atgtctcaca agactctcat 300
 tcatcaaagt tacaacaagt gttacacatg cttctattta tagactaggt agcttccttg 360
 agaagctttc ttaagataac tttcttgaga agcttc 396

<210> 20908
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20908

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 gggctgtgcg tcgtactaca ccgtnnatch tgncccgcga tactctaaga gattttcctg 120
 cagcaggctc tttttgatct attgcgtnag cataagcaca ggataacctg tgagcgtcgg 180
 attgaatatac aacaccatcg gcgtaggaat gtgatccata cacaaaacca ccccgagagt 240
 aagccttctt catggggcac ggcaagcaag aacagaaaga cgcccaaaca tcgaaatccc 300
 gtcctagggg gagaaggggg acagagtacg atctcggacc aaaccatgca tgccaaacga 360
 caacatgttc aggaaaacaa tagttaaacg atatcgatag ggtgccctag gtgcaccata 420
 agctaataaa accgaaaggt cgactaacgt cagcaaaagc aagatacacg gcaattctgg 480
 gtacacatta acgagag 497

<210> 20909
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 20909

agcttttatg tcaggctaag caccactatg cttctgtagt tttcctttga ataaggataa 60
 gcgtagctgc tgctctaagc ccttgttgtg tggtgaggag gttgagctaa gcgccatgca 120
 acgctaagct caactctctc attgtatttt aagttactgc agctaagcta agtgcgccct 180
 gtgcgctaata cctgagtgtc attctgataa cgttgagcta agcgcgccat gctacactaa 240
 gctccaactc tcttctattt tgaaaattgt ggacctatgc taagctcagc ttgctgcgct 300
 gagcttaatac tacataaaaa atactctgtg tattcaggct aagtgcgagg ctactgcgct 360
 tagtcgctaa gttaaacttt ataatgcgc 389

<210> 20910
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 20910

tgttctttat tatgtctgac atattcatag tcggggcgct tattactttt ggagacggga 60
 ctatgacacc gatggagAAC cagagaacca aagctgctat atggaacaga gcgagtgagt 120
 ctcggaaggt tgaaatacct actattgtgt taagaacaac tttgacagac gggattgcat 180

tcaagggcat agtatgacat tggcttctct acgtatatgg cgtgcgtgct ataggataac 240
 agtctgggag aacaatcaga attgaaatga tectacgcgc atggcatttc tgt 293

<210> 20911
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20911

agtttttata agatgtgctc gtttgtataa acaacatcta tatattggta gtagttcatg 60
 ctcacataac cacaaactgc aataatgtgt gaacatggat agtgaagcgc agaatacctt 120
 ccgcattgac aatgatgacc attcaagtta actgcccact tttgtccgcc acgttgcggtt 180
 atangggtga agctttcctc tacttcaaac cttgtgaagt ggatatcata cacgcgaacg 240
 atgtgcgtac aagcttggtc ttgatttttc cttagttctt taacaagctt tgaacaatat 300
 acatgtcctt catttaacta tctttgggct tggcggccac gctcaacaaa gtactttcga 360
 cacctactgt acgttgattt gaccaatgct 390

<210> 20912
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20912

agctntggga ctaaaaaact atataacagc accaaggttc tagtttagag ggctcttcga 60
 tctattcggt attagacata gtctctctct ctctctctct cttcttctct ctctattttt 120
 cgtttttaga tttacgcttt tcttacacac ttttttggtt tgcaattcca gttttgactt 180
 ttcatttttag cagtacaatc tcgctcttca atctataatt tccttctcta ttgattaatg 240
 gaaggctaga ttttctggtg ttgttccttt tgaggacgaa gcccaactct ctttgagggtt 300
 tcgcttgcaa tgtggtttcc tggcagtttt cccttcacca gttatcccaa tttcgtgaat 360
 attaatacgt gcacgcttcg cgttcgatta a 391

<210> 20913
 <211> 588

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20913

 ctacgtttct agccaccnca acatcatctg cgtcttctgc acgcaactat ggcgatacac 60
 tatctatcat anacannccn caagaggagn ctttgatggc actcettact acacggcgag 120
 gtcnagtgct gctccgcccg ccgccgatct ctctattaga ctaccatgga cgctaggcat 180
 ttcttttatt ctgggacgtc tcgctgagg cagcgtcag ctatatcacg acgctacata 240
 acccgaaagg agaacagctc ctgcctccc gctaacctgc aagaaccttt agacggcggt 300
 tctcgcgagg aggaacaccg cactcgtatg gcgcacgct cgcactgaga acaacagaac 360
 gctctccagc tagagtccac cgcacaacaa actgattacg tcggagggac gaggaacaag 420
 atataataga tcccgacccc acgacatcgt atagcgaagc cctccactac tgctcactaa 480
 aattactgtc actcaaaggg cagaccatcc ccaccaattg aaggagggcc acaattggta 540
 tcgaccacta cgcaagagaa tccaccctta cttactatg tatcgagg 588

<210> 20914
 <211> 392
 <212> DNA
 <213> Glycine max

 <400> 20914

tagcttttca tctatagata tttattgttg gatgccaaac tactagaaga tactgttcta 60
 tgacattgaa tgatggatat tgtatttagg caacaatatg taacatagct attgtattta 120
 ggtaatagta tatgtccaac tattgtatctt agcttaacat tgaatgatgg atattgcatt 180
 tagtaaatat tgtatgacta ttgtttcttt cttcttagta ttgtaatctt tcttagaaga 240
 taaacagata gtgtttctaa aaacaattgt ttgataaatc attctcacgc gttatgaaca 300
 tacttgggta gatatagtgc tctgttttat tcttttcaga acctagtagc tctcacaact 360
 aacataaaac ttcttcgact agcaaatagt gg 392

<210> 20915
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 20915

agcttatcac cacaagttat ttctgctaag catgtcttaa atagtaaagc attgtaacaa 60
atcttgattt tacacacaca cacaacata tagtggaat acaagaaatt ataaacttta 120
atatagaagt actagacatt gccaatctga agtgaggag aagaaaataa gtactgttga 180
agatacacia gtacatacta tcttgactg aaaactgggt ctgtgtcagg tgatgggtgt 240
gtccttcgag tgtatttgag tagcaaccct tctgaagaaa gacctgggtac cttcagatct 300
ctgaaacatc tcataagggg ttaattcaaa tgtaaaaaag atgatacgtt tgaaggtaaa 360
aataattatg agatgttcac ctgatat 387

<210> 20916

<211> 396

<212> DNA

<213> Glycine max

<400> 20916

agcttggtgt tttcttcaac tcatgcattc tactagattt tggcatagca ataaccaatt 60
tatttgaaat ttgatattca tgaacattgt atttctcaca agtcaatggg tagattgatg 120
aagatcacat aaaatatgtt actcaattgt caaagtgtat aaattattta taatgtcgct 180
catgttttac taacatgggc attagtttgg aattaattag ttgctatgaa ataaaaaatt 240
gggacttcat ggccataagt ttcacctagt agtggttcagt aataatgtaa tgttttaatt 300
taacttctat caatggataa tctacagttt aggttgcct caattaataa atttattggg 360
tccttctctg gttgattctg ctaaaaaata agaata 396

<210> 20917

<211> 397

<212> DNA

<213> Glycine max

<400> 20917

agcttggttac ataaataatt atgtcactgt ccaatctttc aagcatgcgt catataatct 60
aaacagacag tatttcattg ctaaactcat gaaaaatgaa ttagaaagggt cacttacaga 120
gctaatactg ggttgctttt ttgcagcaga gatttctgga gaattcaaaa gcagaggatt 180
tgtagcagag tatgggttcag tcatagcaaa cattagatta tacaggtaag aatctcaatt 240

ctcaatcttg aactaaacaa gtaaaatagc acattgtgca cacattaaca tagaaaggcc 300
 ctgtgttatg aaccataaaa ggcagcatcg gtctttatga ataagcttcc caaatttaag 360
 gataacaaaa ctgcaacttc ttcaatgtat gtgcgctc 397

<210> 20918
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20918

agcttgctct ctttaacaaac ttgtttggaa cagcaagggg atggcccaac aatagtcccg 60
 tttaactttg ctctgtggaga agaaaacaca caacgctttc ctcgatatct tgatgattgg 120
 gaaacattca tgaagttact attcagtgtc gctaaggcgg gcttgcttga tgaatatgac 180
 ttgctcccaa tgagtgaacg acctttggga gcagcctcct gccatccttc atctgagctg 240
 tcatgctgtg ccaggttatt actttcattg agccttgttt gagctaagag agtggactca 300
 actattatca atcccgtgga ctatgagttg agctccagat ctattttctg taccactagt 360
 aggctctgtt atttaataac cgtgacacat g 391

<210> 20919
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 20919

agcttgatct ataggtaaga gacaatcatt agggacccat tctcttcac cgattcacct 60
 tcattcctta tcccttcacc ttttacatcc tttgtacat ttgagccctt cgtgaccatg 120
 aagggtctaa caaccattg ttggagagct ttccaccaa ctctcttgat gtaaagactc 180
 ttactatcca tttaacatta ttgctagttt cattgttcc tctgtgttt atttccatgt 240
 acttggtttg atcatccatt taaatgctat gttaaggttt aagcattggg aaatgtagtt 300
 aaccttagaa cttggaagag catctaaaat gcttcattgc tagggataat atgacgtagc 360
 ttatgtgaat tatacgtctc tattaatcat gca 393

<210> 20920
 <211> 308
 <212> DNA

<213> Glycine max

<400> 20920

agcttgtttt tatggatagt tggatgaga ttaagatgtt ttggcttttt acatgcctaa 60
cttcttttga gtggcatttg tattgggtgc taacttgatt gttgcgtctt tagtacattt 120
catattgggt tttcatgtgc atcgatcatag tgtgtgtgaa ggaaatctcc taagtttaga 180
atTTTTTTta tgaggcaaaa actctctatt ttaatcgatt acagagtaat cgtaattgat 240
tacgacaagc tctgaagctt gaagatgtaa agtctcgtat ccgatttatg aatgtatgaa 300
tacatgaa 308

<210> 20921

<211> 382

<212> DNA

<213> Glycine max

<400> 20921

agcttttacc catgacttcc tatggtggtg agcttggtct tgactcatct tctccttgaa 60
gtggcgtctc caatcacctt tctccttct ccattccgct accattgatc ttcaagaagc 120
aaaggactcc attgatgagg aagatccaag gcctacaagc tctacattga gctacatcat 180
gtggtattag agcatcttca tctaagcgat gttcttttgc ttcctctatc tttttgttcg 240
gtcaattgac ttttaattcct tgttcttcat catcttctcc atgtatctgc tccattgtct 300
tatggtttgg ctatttttag agtagattca acaaaataaa ccgattaaat cttagataag 360
cactcgttct tgcatttcta tg 382

<210> 20922

<211> 384

<212> DNA

<213> Glycine max

<400> 20922

agcttggtct cttatgtgct tgtactcaga attaataaaa aaacacagtg acttactaac 60
acacctaata ttacaggact agaaacaaat tagactaata caaatgctaa aatttcaagt 120
ttagatacca gactcaatga tgctaagtaa atacagaaaa tgattacaac ataagatgtg 180
ttaaataagt aaaatactac taatgacaaa ataataataa tagacgggga aagaaaaacc 240

atatacgtaa aagacagagg ttaaggtggg gctgagctga aagaagaaaa agcatggaac 300
 tgaccagagt ttagggttca caattcagca ttagttagca tactatctac taacaataag 360
 tatcatcatc atcatattaa actg 384

<210> 20923
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 20923

agcttgtgga ctataccttc gaccaaacac tgccgtgttt ctgtctcgac ccagatttaa 60
 tgcgggctgt agcaccggct ccgctttcct aactgtactg gaggtgggtg tcgtggcttt 120
 atcctctata gttttctgga gtttttagcat gacctccgag atggaagcca tttgatcttt 180
 taaagccgat agatcggcct tcattctgttc ctgcacgccc tcttcattat ccatttttct 240
 ggatcgagtg ttataggggt gcctatgtgc tttcttagtt atgatgaaat tcctaaagaa 300
 ataaacaacg gtgagtatgc caccaaaaaca tgaatatgca aatgaatgat cggagcactt 360
 ggatccaccc ccagggttttt 380

<210> 20924
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 20924

agctttatta tcacagcaac acagaatcta ggtgtccaac acccctcaat tcaatgggtt 60
 ttctaggttt gaaaagtga atcgagaatg aggtaaattt gaagcatact ctcacctcac 120
 accagtccat aacatcaatc taaacttgc caaactggat ttacgcttaa aatctcaccg 180
 aatcaaaaatt tgactcttcc acacccaaat ttgccctata aatggctctt tgttcacttt 240
 ggtcatttgt ttttctctct agcacagcct aatctttctc ataagtccta aatgacattt 300
 caagctaaga ttaactcact ctaacctcca tttaccacag aatccagaat taaccttcca 360
 actctcaaag cctcactctt tttccactca taacat 396

<210> 20925
 <211> 280
 <212> DNA

<213> Glycine max

<400> 20925

gcttgagtcg aaaaccgcag gcgtgacctt ggctcattac ctgtcatggg attttttaag 60
gctccgctcg gcttacatga aagtctggct aggcccacga tcctatttga aagcttgctt 120
aaagacgtct ctgataaatc aattatttta aatcctaag aaatacttac taaaaaaga 180
aacttatgaa atcccttatt agtaatgcac aaattctaaa ataattgata aacaaaatga 240
ttatgaattc tactcgtaaa gcacacagta tattaataaaa 280

<210> 20926

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20926

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tgaagataaa caggtacacc tatatgggtca cccaatataa ataaataagt gtcatgtgcc 120
ataaagagta gcaaaatata atgtgtccta atgaaactag ggagtaacat atatagtccc 180
aactaaagta aagtagtaat gactaattaa gtacaaaagg tctgagccta agtctaccca 240
tcccaaaata ctcgtaaggg caaaaaccta agacttagag tagtcacctc tacctaagtc 300
caaagtcagg tgactgcaac tcagaaggga taacaacctc tggcataggc acaacaaagc 360
ggtaatacga cagtgtangc taggtctacc aaatg 395

<210> 20927

<211> 390

<212> DNA

<213> Glycine max

<400> 20927

atctttatcg gatgacgccg atcgaacatt tcctaaccga cgcatgcaa atttcgttca 60
gggattgaat tgagaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120
agccgacatt gcacaattct ttttagaaaa gctcgctggt cgataatggt ctttttacgg 180
cagagtaagt tttcttgttt tgggtgttga taaaaaagtt acaatgtact tcggctaggt 240
ttttcgtgcy agttcaaccg acattttgtt tcggccagga aaacattagc ccacctctgc 300

aaaaaaaata ttgctaacc gtcttcatgc atatttcatt caacgattga atagaaaact 360
caatagccga caacggtcgt gaaatagtcc 390

<210> 20928
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20928

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gtggatggcg cctcctctca cctcttctcc ttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatctag cctccataga agccccacaa 180
gcaagtttct atcaagtggg aatcagagca caagagcttc aagtaagtgc tccttaaacc 240
tccattaatt ttttttcttt accctctctt ccattgttgn ttcttcattt ttctccatgt 300
atctctcac atgtcttggt ctaaagtgtg ttaacatgat tctttagagt ttccaccgat 360
taaacttgct atagaaacta gattngattt tctat 395

<210> 20929
<211> 398
<212> DNA
<213> Glycine max

<400> 20929

agcttctccg gatgacgccg atcgaacatt tcctaaccga cgtcatgcaa atttcgttca 60
gggattgaat tgagaactcg ttaagcgaca tctgtcgtga agtagcgacc gatatttttc 120
agccgacatt gcacaattct ttttagaaaa gctcgctggg cgataatggg ctttttacgg 180
cagagtaagt tttcttggtt tgggtgttgca taaaaagtt acaatgtact tcggctaggt 240
ttttcgtgcy agttcaaccg acattttggt tcggccagga aaacattagc ccacctctgc 300
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caatagccga caacggtcgt gaaatagtcc cgactgat 398

<210> 20930
<211> 390
<212> DNA

<213> Glycine max

<400> 20930

agcttggttat ctatcacatt atatagcgga tacgtactgc taaaagcctg catatatggt 60
tttttaatgc attccaactt gcattgcaac catttgaggg accctttcat caaagatatg 120
aaattattga cactcaaggg gtcggcatct ccactccat gtaccttgat ttaacttaaa 180
actcaaggat caccacaatt ttattgtagc agctgaaatc catagcatga ttttttttct 240
tagtgatgct gcaacccttt actatatgaa cccatataat ataagtatca tttttttttc 300
agtaacagtg acttgatgt cattatgatt gagtggctat aatatatggg aaatcatcta 360
aatgaacttg aggcacgaaa tgatgaacat 390

<210> 20931

<211> 392

<212> DNA

<213> Glycine max

<400> 20931

agcttcttct caatggactt accttgaatt aattcctttg atagcccttt tgagccttgt 60
ttccctttcc ttgttttgaa gtcactaca agccttaagt gaaaaaccat gatattacca 120
tacccttaag gaattttgga tctttggaat tgttttggga ataagtgtgg tgggtttttg 180
tttcattgga caacttgttt tgttggctat gcttcatgat gtattttggg ccatacttga 240
tgtacattgt atattggta aatgttggac atgctgaatg aaatgttgtt tctcaaaggc 300
caaagagtaa aaaaaaaaaa atatcgaaaa aagaaaaaga aaagcaataa agttgagtga 360
ataagatctt aaatggcaca agaatgatga aa 392

<210> 20932

<211> 375

<212> DNA

<213> Glycine max

<400> 20932

agcttctctc ggattattcc gatcgaacat ttcttaaccg acgtcatgca catttcgttc 60
agggatcgaa ttgaaaactc gttacgcgac atctgtcgtg aagtagcgac cgatattttt 120
cagccgacat tgtacaattc tttgtagaaa agctcgctgg tcgataatgg tcttttttacg 180

gccgagtaag ttgtcttgtt ttgggtgttg ataaaaaagt tacaatgtac ttcggtttagg 240
 tttttcgtgc gagttcaacc gacattttgt ttcggccagg aaaacattat cccacctctg 300
 caaaaaaat attagctaac cgtcttcatg catatgtcat ttaacgatcg tatagataac 360
 tcagtagccg actac 375

<210> 20933
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 20933

atcttattta ttctgcttta gggctttatg atgatgcttg cgatgtttgt gtgctgaaat 60
 tgctgatgga aaactgatat agatgaatgg tagagctaac ctaaggctaa caagtgagaa 120
 tgtagtgata tgagtggaaa aatgtgacgc tctgagggtt tgaaaggcta tatctggatt 180
 tagtggtaat tggagattaa agtgagttaa tcctagtctg aaatgtcctt taagacttat 240
 gggaaagctt gcgctgagca tatgatgaaa atgagtgacc aatgtgaaag caagagccat 300
 ttctaagtgt aattgcgtgt tgatgggtca aatattgatt cagtggagtt ttagtcgtat 360
 aa 362 .

<210> 20934
 <211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20934

cgcacgtcnn nttaagatgt gttcaatcca cgcgccgaga gctagctccg cgcggatcgc 60
 tctctatgac agtcctagca ctgcactgca tagcatttct tgtgttgat tccattcaat 120
 acatatagct agtcggcgg catgcccatt acgctcacga atagtatcgc caaccggct 180
 tgagacacac agtcatgtta gaggaaccga tcttgtcttg agatgagaca tggctcactt 240
 ctactttctt atcaacgagc cgtatcccgt ccgcttactg gacggttgta cgggccagca 300
 agccatattg ttttgctgct gtacaacaac gacaccatgt acttcggcta cgtcagtcgc 360
 gccagagaca acagagcttt tgatgctgcc tcataaactt tcgtacaaca gttgagagaa 420
 gaatatgacc ataactcgat atgctgtgta ttacacgaga cagaatgctt atatacacag 480

acttgccat aacaggcggg agatgactac gaatggg

517

<210> 20935
<211> 395
<212> DNA
<213> Glycine max

<400> 20935

ctgcagtttt tatgaggaag tgttgaaggg tgaaactttc tgcttttatt gttgaccaca 60
gagtgggtacc tggagatatg tcgcgggggt caggagacct tggggacgtc aggtgggggtg 120
ctattgcccc aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cggtcagtga 180
gaacctgtga tgtacctaa gaggcgagct ccttcagtc aaccgataaa aggataacat 240
agaccacata gcaaggaggc ttgtgggtggc tgaccagctg tgaatttgtg tgatatgtgg 300
agtatagtct ctggtaatcg attaccaagg gtgggtaata gattacaagg cttataaatg 360
aagacaggag gctaagatgg tctctggtaa tcgat 395

<210> 20936
<211> 370
<212> DNA
<213> Glycine max

<400> 20936

tgcttattgt ttatggaaaa agtatagaca tccaattgcc tcgaccaatt tataagattt 60
gcggagaaca tgcaaaatat ttcacgtctg acgctcatat gcgtatccgc tttacaagat 120
aatgggtggg ttgaaattag taaagattat gtaaacgaaa cgcgacagca tgtgaaggat 180
catatataat taagtcaatt atattcaatt tattcatata tgagaagatg agtgatatct 240
tcgaattaga tcgataagcg tattgtggca gtatctaatt cccgcttttt ctgatgaaga 300
catgtaatat aaggatgctt ttagtttatt agatgagacg aatgaatttg ctgtgacgca 360
aattcaatct 370

<210> 20937
<211> 540
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20937

ctcacacgtc ccctaccatc totgcacact tacagccaca tgcatacggg attgcgaacn 60
cnaagggggg tgggtgtgact cttcaccacg ngaaangaga tgcgggcccgc cgaggactca 120
nagtagacca tgcacgcatg catttttgtg tctgcgacaa gaatacttct gcgagggcag 180
ccgctgacga ccaccgacgg aggataagag ctctcatag aagaactcgg gactcactac 240
gtaccaagtc gcacgaacgg gcgagaatgc tgcgcgccgg gtgtcagcga cgaccgagag 300
accgctgacg caagaaagag accgatcgca agacaacact atatctttcg actaaggtag 360
gaccggctcc atcgcaactt ctatagaacc gcggcggtca ccgacattcg tgatgtgtgc 420
gctgataacc gcccggccac ggacactaat ggaacctgac cctgtgggtg tataacaccc 480
acacaaaatg cgcaaccgca caccacatc ttccacagcg tcgcatgcac acagtccacg 540

<210> 20938

<211> 384

<212> DNA

<213> Glycine max

<400> 20938

tttcttgtat tgattcagtc taagtgggga ttgaggttta gtaatttagg ctacaacata 60
gaacacaaaa gcatgattaa ttagagaaac atctttatat acatcaactg gtttgtaga 120
aagaccaaac atctttacct actgttgtca atcttactta cttgcatttt tactgttttt 180
agcctagact tagttttatt ttgttctaaa tcatcaaatt atcaatgttt ctttcaacaa 240
tgccttattt ctgaatttaa ccatgtctaa gactagtcc ctgagttcga tactcagatt 300
catccgtttt aattttaaat acttgacgat ccggtgtgct ttctgataaa ccggatttcc 360
cttgaacata tttgtataaa gaaa 384

<210> 20939

<211> 390

<212> DNA

<213> Glycine max

<400> 20939

tagctttata tggtaaataag aaagcatgaa atcagaaagg taaatttttg gctgtaactt 60
atgaattatt tttagtattt actttatacc tgaatgaatt ccaaattgtc atataatttt 120

tttttaggatt cattttttca atttattgga aacatctcac atgtgtttga cagggatcaa 180
agaactttta aaatctttac ttgattttgt tctagacgga tttgttgatt gcttcttatg 240
tgtttgatca aatgccaaaa agaactttga aatttccctt tgcaagcttt accgattgat 300
ttctttgggc tatttttaaat ttactgacta aaaaaatata aatttagtgg gtcagtagta 360
ctaactgaac atgcaatgaa acatgcacac 390

<210> 20940
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20940

agctttcttt ctggaactat caaacaacca taaaaaacct acagaatcat ggatgaatct 60
ttcatattta agtaacaata ttaggaaata tacaatatat ataaacaact agatttaagg 120
gtaatttaga agaaaactat tacaatcaaa ggataataag tgctaacaat ttaatcccaa 180
aaataactta aatttggcac ttatcaactc cccccaacct agaatecttc ttgtcctcaa 240
gcaaagtaaa taaaaatagt ataagtatgc ttctaaaatt atgaacatgc tttgaaaaga 300
atcaatcccc aaactgatta ngacgacatt ttctanaatg gaacaatgag aaatgaaagc 360
acaaagatgg aattcacata accaaaaaat gagattaa 398

<210> 20941
<211> 395
<212> DNA
<213> Glycine max

<400> 20941

agcttcttgg tgccctcccg tttttatttt ctctccatct ctcttttttc aactgtagc 60
agacatgttc atatgtctgt tgggtttgaa atgacagcac tgtccatcat tgagctctga 120
tataatcatg aaataccaag gaataactac ctttcatttt catgtgttcg tcaattacct 180
gatggatggt agtatagtca tgaccttatg tggtagacgt atgactacca aaaatactga 240
gaaatagaga tagagatatc tcaagatatg tatggcattg ctttgcacca cttgtcatat 300
ccttatatca tatatatacc ttgggcttaa gcataaattc agcttgcttt tgtatgtacg 360
ttaaaggaac ctgagagagt aacacttata tatat 395

<210> 20942
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 20942

agcttgatat tcattaatag aattatattt gactatattt caagtacaca tttaacattg 60
 ttttctctaa aataaaactt aatgggcttc tagagcagaa gagagtttt caacttcaac 120
 caaataaata aacttcatag cattgatctt tgtttgcggt aactctaatt acaaaacata 180
 cacatatata attaattttc aattaagaga aatcaaatta cctcttcaaa caatgtgaca 240
 tataagatgt aacacaccac ataaaaaat catgaaagga agagatatat ttatttccaa 300
 ccacacatat caaatattca tttaatgaat gtgaaattac aaaactaccc ctaatacaga 360
 tactagtcta tagtgcgcta atatacaagg gctg 394

<210> 20943
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20943

agctttcttt tgccatttcc tgccaaggca aacatttgga aagttagttt taccaagaaa 60
 tgctactctt aaaacaaaaa tggcatacaa cctcctccaa taaacacaaa catcaatgta 120
 aatttagagc aaactcatgc acatacttct ttacgaacat tcactcgcac aagatattct 180
 tctaactaag aaaaatgcac aatcaaggca ccttcgttac ctagattatt tatatgtact 240
 tccaagggtg atttgctatc tacatcacat gcacttcctt tgctaaattt acatacatgc 300
 atactcaaag cattttggct accaaaattt gcacacgtgc acattctggt atttccaata 360
 cctatacata tacaactgt gtgatgaatc tt 392

<210> 20944
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20944

caccaaccac nacctcctac catagacgaa cgcacacaat cacatagtgn ntccggcctn 60
 nananttana nntaagagg agnntttgat gacgtcgata acgacacggc gaatncaaac 120
 tcggaacccc gcgagcctcc acagtacgcc cgctggcatg ccagctagtt tggttaaaga 180
 gcaacgaacg tcacgcgcgc atgcaacaaa agcgagacgc ggctatacca gacaaccgcg 240
 caaaciaaagg ccaggttaca gagaaactcg gccagtgcaa tattcaatgc aagcgatatg 300
 tgaaciaaaga gaaagataca caaacgctag aagaaacgga aaaagaagcc aaaaaaacac 360
 cgggcccagg ggaaacgaaa cactcccctg cgttaccaga cataacgagc acacagaagc 420
 gcacacggcc agagaaaaac aaaagcgcgg gacagagcat cgacacgcga tgcgaccag 480
 aagcagcgaa aaatcaagac acaccgagcg agatacacac taatccagag cgtgccacga 540
 ggacaacacg tagcgagata acaccg 566

<210> 20945
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 20945

tgcctgcatg catgctagtt ttctctatct gccagaccac ctttgacaac ctacagactc 60
 gtggatgaga cttttctatt ttcataacgg tattaagaga tctactgtat ctatgatcat 120
 cgtggtatat tggcctttga taagatatct attacctact taagatccag ttgctggcat 180
 ttagccccctg aagtaactca gatttggcac taatcaactg tccccaacct agaattcttg 240
 ttgtcctcga gcttagagca ttaaatactt tcagtgtgcc tctgaaacta tgaacatgca 300
 ttgtaccgaa tctcctcc tactgattat gacgacattg ttgaaatgga cacagtgata 360
 aatgatgtct catagatgga atgcacat 388

<210> 20946
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20946

agcttgtggt tgaggactt acccgttgaa gatcgaagaa cgatgaagaa cgaatgaaga 60
 acgtcgaaga acggtcgaaa ctttcgcaaa attcctcacg gaaacgttac ggaagcaaca 120

gccttctgga ggaatcttct ggagggccca agtgggctg attgctattt gcaccccat 180
 ttttactaag tacacccct gccttatttt ggtgattctt ttttcgtaaa gttacggaaa 240
 cttacgaatt ttgtaaccat acttgttttc tttccgtaat gttacggaa cttgtggatt 300
 acataatcat cccctttttg acttacggaa tgttacggaa cctcactaat tgtgcaacga 360
 tgccctcatt tgatttccgg tgtgacacgg aa 392

<210> 20947
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 20947

tgctttgtgg ggtgattcag accttgcttg ggagtgcctg cctgctatga atgctgctgg 60
 ggggtctgcta tgcgtttgga ataattgtaa ttttcaggtt gatcttagag tgtctgaaaa 120
 ggggtttcatt atgctgggag ggggtttggat tcccgacatg caaaggatag tcgtgggtcaa 180
 tatgtatgct ccctgtgata ttgtgggtaa aaggcaacta tggcaggatt tgatcagtat 240
 gaagttgcaa tccaagacc cgtgctggtg tctagatggg gattttaatt gcacacgca 300
 cccctctgat agaatgggga gctatcgtgg aaattcaccg ctttctatta tatctgaatt 360
 taatgactgg ctcg 374

<210> 20948
 <211> 340
 <212> DNA
 <213> Glycine max
 <400> 20948

tgcttttttc tacacggact tacctagaat caattgcttg gacagcacca ttagcctct 60
 gttcccttta ctgcgcccga tactcactac gcgccttaat tgactaaaca agatacctgc 120
 acatcctaag ggaattcggg acgctcatga cacgcattgg cattgatagt ggtgcggact 180
 tgcttactcc atggaatatg tggtagcgat gactgtactt gatcacgtat tgggagctct 240
 acatgatata caaactttat gacgaatatt gactatctac tcgatagaca ggtacattct 300
 ctgctgttat caagtcattg ctacctatcg ccgcatgcaa 340

<210> 20949

<211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20949

catattcctc ttcgccacc agctaatact cacacttata aatcagtata acaaaatcnn 60
 nncagagggg gttgtgcgca cgtaaccgg gagaaatttc gctccccgga accctatgag 120
 tccgccgga gcctcctact ttttggttag atgtagatcg tcgaccgaac attaataaat 180
 acacacgccc cgcagcggga gattcactac aaccacaagc cagtggctac gaagggctgc 240
 atcaattaga gagaaccccg cttaatccac gtgcaaagcc agcaaacag tgttccgcaa 300
 agcgatgaaa aaataaggtc caggtgcta ttagcagtaa gataaccact aagagcgcaa 360
 aggcgtaaaa cagatactcc ctaccgaagc aagaaaaaag aaaaacactt atcacagtct 420
 gtctcgggtcc ctaatgcctg cgactaagag aacagaaacg cgagcccgcc gcctaaaact 480
 agagcctacc agcaccgcac cagaaaccac acgaccg 517

<210> 20950
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 20950

ttttcttgtt atgaggaagt gttgaagggt gaaacttctt gcttttattg ttgaccacag 60
 agtggtacct ggagatatgt cgcggggggtc atgagacctt ggggacgtca ggtgggggtgc 120
 tattgcccac aaaccaagctt gaccaatccc gacccaaccc gggcatagtc ggtcagttag 180
 aacctgtgat gtacctaacg aggcgagctc cttgcagtca acagataata ggaaaacatg 240
 accacaaagc aaggaggctt gtgggtggctg gccagctgtg aaacttgatt gatatgtgag 300
 atatggtctc tggtaatcga ttaccaaagg tgggtaatcg atta 344

<210> 20951
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20951

atcttatgcg catatttctt tacgaacgtt cgcttgaca agacattctt tcaactaaga 60

aaaaaaatgc acccatatac aatcaaggca gtttcattac ctagattatt tacatgtact 120
 tccaaggtgt atttggtact tacatcacac acatctcctt ggctaaattt acatacatgc 180
 atactcaaag ctttttgggg taccaaaaat tgcacatgtg cacatcttgg tttttctaatt 240
 acctatacaa acttcatgat gaatattgac tatctacaca ataaagtgtc acatttcatg 300
 ctcttttcaa gtttttgcta cctaaagccg catgcaaatt caagtatatt ttcctttgct 360
 gactaaaatt gtattaaaag gtatatattc 390

<210> 20952
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20952

agctntttct tctgattcag acaagggtcaa aggtagcttg gctatccgac ttttgagaaa 60
 tctaattgca tttcccatgc tgattgacag aggtcgacac tcaataagaa atgatacata 120
 actaccaatt tttgctgtca agtctctcac aagagtcttc tcaggtggaa cttgttagtc 180
 tttgatggcc tcttgaaatg cttgaagcat tgcaatgcaa cgagcattgc caccagatat 240
 atctccagtt agatactgca agcccacctg aaacaccata aaacaagatc attaagattt 300
 gggaaaaaat atttcaaaag gtctaggtca caaaacatat tgacctgacc caggtcctaa 360
 tcactgatat tcattaaaac accataaatt ttaatt 396

<210> 20953
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 20953

agcttttatt ttatgtcttc acaataatc atcacacagc agaaacctag caagactacc 60
 catcatatct ccccaaacc ccatccacg aaaattaaag gagaaagaag tccacccaaa 120
 cctgaatttt cgaagtccca ctgtagcca cgcacttcac ggccccgaaa atgcctcct 180
 ttcgcgattt ggggcagaaa tgatggccaa aggttgaagc tttgcttga gcttcaatgg 240
 agaatgaaga aggagaaaat ggcaacgtga gggagagaga gagctgtctg aaaagtgtgg 300

gggctgagtg aagagagaga atagcttttt ttggttttta ataaaagggt attctctttt 360
tctattatta tatttgagca atgccacatg tctccattt 399

<210> 20954
<211> 385
<212> DNA
<213> Glycine max

<400> 20954

agcttgtaat ctattacaca catactgtaa tagattacca taagacatta tcagaaaata 60
tcttcaattg tcacatcttt tcatttggat cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gctaagagtt ttccacaaca aaaagggtctt atcctcttaa 180
aaagacaaat cgttttatcc tcttacaat tcttggcca caacacttgt gattcaataa 240
ggaattatct gagtgtctaa attgatcaat ctatcttttt cactgagagat atcgtcttat 300
cttcttctct attctgaaaa gggattaaga gaccgacggt ttcttgttgt gaaataattc 360
taaccacaat agaagaattg tcctt 385

<210> 20955
<211> 395
<212> DNA
<213> Glycine max

<400> 20955

agcttgttct taactgggaa ggtcccttta gggtcacaac caaccttgac aatggagcat 60
accgactaca agagctagat ggcaaagcaa tcccacgaac gtggaatgcc acccacctga 120
agttctactt cagttgacct acactctaaa cctaattgtg tactcttttc cctatgcaag 180
ttttttgtcc ccaaaatata aaatccaggg ttttggcttg gagggttttt aatgaggcac 240
atttgggcaa cgaagggaat ttgtactcag ttacatacat tgaataaaaa tctacatccc 300
ttccttttcg catttctctt atcaagacaa gagcatccat agttgtacct ccaaggctct 360
taaaacccaa ggtccatcct tgggtgagccc ttttt 395

<210> 20956
<211> 391
<212> DNA
<213> Glycine max

<400> 20956

agcttcttat ccaaagcaca ttcttggtgg cgaagctcct tcttccatgg tttattccct 60
agaggatggg gcctcccctc tcctcttctc ctttgccctc cactgcatct ccatgggtgga 120
aaatcaccat tgaaggacct cattgaagct taaagatcca gcctccatag aagctccaca 180
agcaaacttc catcaagtgg taatcagagg aaaaagcaca acctatcctt aaacctccat 240
taatctttgc tttcccttct ctccattat tgtgtcttca tttttctttg ttgcaacct 300
cccttttgca agcgagcgag gcgaggctca cgcgtagcgc ttccaaatga ggaaaatgca 360
cggagtcccc accaacgtct atttgtggaa a 391

<210> 20957

<211> 387

<212> DNA

<213> Glycine max

<400> 20957

atcttttcca gatagaatgt caaagatgga cgatacttta acacaattta tgcaagtatc 60
cagcacaaac cagaagaaga ctgatgcac tattaaaaat ctagaagttc aagtatgaca 120
actggcaaaa taactatccg aacaaggaag tggatctttc tcagcaacca cacaggtcaa 180
cttaaaggaa cattgtaatt taattacaac aagggtgggg actatgggtg gtttgaagga 240
taatgatgaa aaaagaataa aaaaagagtt gaaaaagaaa acgagaaaaa tgatgaagtg 300
atgactagtg aaaaagtgga agacaaagtg gtaagtgaag aagagaagaa gatatcaaat 360
gaacaaacca gtaataaagg taaagct 387

<210> 20958

<211> 370

<212> DNA

<213> Glycine max

<400> 20958

agcttggtct tatacaaacg accataactt ttactcggg tgtttgattg aggtcgttaa 60
tatatcgaga cgctcgaaat tgaatgttga agctctgaac caatataaac gacaatgacc 120
tttactcgg atgtatgatt gagtcccgta acatctcgag acactcgaaa ttgaatgttg 180
aacctctgag catattcata cgacaataaa ttcttactca tatgtctgat tgagtcctcg 240

aacttatcga gacgctcgat attgaacggt gaagctctga gccaatatac acgaccataa 300
 ctttttactc ggatgcctga ttgatgctcg taatatatcg agacgctcga aattgaatgt 360
 tgaacctctg 370

<210> 20959
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20959

ttgttttctg tatgctagct atcatgattt catttgtatt cctcataatg tattctttga 60
 tatccttaat aaaatgacat gaatttggtt ccttataaaa atatctatag cgccatgtaa 120
 ctaatatgaa agtcacaaga ggtgaagaat agtaaagaga aggttaaaaa gtggttggtg 180
 aaactgaggt ttttcattta cttttctaata ggccaaagat gcgatgtaaa agttgtgatt 240
 gttcgctttc gatccaacct cctggttgca ccataatttg tgaacataat gataacaatg 300
 cccaacaaaa agaatacgtg cgtgcgtgag ctggagaaac aattgaaaca acttatccca 360
 caccaaacca aacgtgtttg ccatttgatc ac 392

<210> 20960
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 20960

tgtttttcct tttggtcctc ctcataggtg cggcagcaga aatcatgctc tattcatcat 60
 ctcccactcc aagtaggcct ccggatcatt ccttccttta aatggaggaa ccgtgagttg 120
 aataccatca atcctgctat tgactaagaa caccgtcatt ccctcttctc cttctttctt 180
 cttcattacg acctctattc tccatttgat ccaacctctc atggagcgca tcatgtagat 240
 gaggcattaa cctctacaca ttagcatca aagctcgcat gtggaattgc gatagcccca 300
 ctccatcatt aggattatta cctgacatc 329

<210> 20961
 <211> 540
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20961

tcgacaaatc cctccccct accaccactn tagntcattc gagcatttcc acaaaccttc 60
cccacnaaga ggagggttga tgctgtatac atccnagcga cnannacnag nccgccncga 120
ggcaccaaga aagaccagca gcaagccagc catttagacc catagacaca caaacangca 180
cgccgacatg gattagcaag tggacggagc tatccaatgc agactgacac caaaaagaac 240
cacaccacc atcaaacca cgaaaaagac taccgaaagg caagcacagg aacccaatg 300
acctatggtg acagaaagg gaaaagagg caacccaaat aaatgcgcgg ccaccacgag 360
gaggagaacc ccaacaacag ccagcaaaaa gaacaacgca tagggaagat cagccccgg 420
tcgtggtccg aaacaaaaa gacacagaat gaacaccctc tgcggaagcg accacgaaat 480
aacaaggccc acacaagggt gcgagaaggt gagactgcc gccaaactatc aaaagaagcg 540

<210> 20962
<211> 389
<212> DNA
<213> Glycine max

<400> 20962

tagcttggtc acctttttcc tcacatcttc cttcattgat gggttgagcc ttctttgggg 60
ctgtctgact ggtctgtaat cttcttccat cattatcttg tgcatacagt aagcgtggct 120
gattcttttg agatctgata tgtgccacct aattgcctcc ctgtatctct taaggacctt 180
taccaacctg ttttcttttt ctgctgtgag ctactgctg atcaccacag gcttggctctt 240
gttcttctcc aagaacacat acttcagggt gttgggtagg atcttcagct ttaccttggt 300
cttctctgat ggactccgc ttttcaattc ttcgaaactg gtccccatta cagtaatatt 360
gtcttcacaa tctaagtctt ccaagaaag 389

<210> 20963
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20963

ttntttttta tcccatctac gcatggaaga ctttcatca tattcttttc atgtaccaac 60

ttcaaagctt gagtgtggaa gtgaccaa atctcgatgcc ataaccatga atcatcaatt 120
 gttgctctca tggaaacgct agtactagta gtatacttga agcttattgg aaaaatacta 180
 tttactttca acattttaac tttgacaatc tctgtgcttt tgctagtgtt atcaaatact 240
 gcacgtatct cctttgaatg aacagattag tctttctcca tcatttgttt aatgcctaag 300
 agattgtctt taagatctgg aactaaccat acatctctga tgaatcttgt acctttcttt 360
 gtctacagca tgat 374

<210> 20964
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 20964

agcttcttat tgtatttgta ccatagtagt ttgtaacttc ttcaatttgc ttgcatgtca 60
 gttccacact gaattcattc tcacccatat gggtagatag tctacaattt atccctactt 120
 gcatcattaa atactattta acgttatggt taaatttaac ttgccctatg tggtttgggg 180
 agtatcactt tggcaccacg tggtttaaac tttgtcactt tgctcccttc atattttcat 240
 taacatattt gttatctect tgtgtctttt ttggctgtca actatgaaaa gcttattcat 300
 gctataatcc attaaaccag caggtttaca tatccgacat gtctgtctgt tcctaacttt 360
 tgacaaggag aacatatttc taggaaaata aacaaag 397

<210> 20965
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 20965

agcttgtgct cactgttgct accccacaaa gctccacgga atttgtctcg gccatgctct 60
 tccttgcgag ccctcttggt ttcttgttca agggctcttg cggtagctgc attttcttct 120
 cgtaactcgg cacactcttt ctggacgtct gtagcgacta acttgaattt ttctttggca 180
 agtcttgctt ttctagtctc tggtttttaga gctcggactt cttcatcctc ttccggagct 240
 togaagttcc cctcattgat aactttcaat ttggagagcc aatctaacc ccggtgtacga 300
 actttcaacc attcatgata accaccgatg atgccattac ggatgccctt aagttcttta 360

tctttcctta acgggctttc ccacg

385

<210> 20966
<211> 396
<212> DNA
<213> Glycine max

<400> 20966

agcttgtccc tgtcttgaaa gcttgtttac atgtcctatt ctatataagg gcatataaac 60
aaaccaatag gtctaactag gccaatgggt cttgttcac acctaaatta tttgatgttt 120
tctaaagact aataatatta aagaaaaaaa agaaaataat tcaaatttac tttttccct 180
ataaatgtat aattattaat agtcaaatcc aagcacaaaa tgtgcaaagg attgttgcac 240
aaaacttaat tacaagtagt accacaccaa cacctataaa tataaaacga aatattggtg 300
aaaaagataa gaactagcag caaatactta ccccccacaca ttatagtcag taaaaacata 360
atgtttttat ctcttaaagc acctgccgca acctac 396

<210> 20967
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20967

agcttaatgt atgtttctat gttcaaata aattagtgtt ttgaaagttg ttttttatca 60
agtcacatgca aaaacttcta aattcatttg gtatttggga aagccattca ttgtttttca 120
ttctcaatgt ttccaaaaat cactttgttg tgtttcgatc caattcaaaa gcaagtttca 180
aatcactgg ttgctgattc tttccaaaac atgttatgtc caagaaaaat tttctgttta 240
agtcacaaaa agagttatat atattctaca actacgctaa cagaacaaaa ttatttagtg 300
gtgtgtacta ccaaaaagag ggtgtcagac cctaatttca tccgngaag gtttttatcg 360
ttcgacacaa cccgatcaat catatgcaag 390

<210> 20968
<211> 390
<212> DNA
<213> Glycine max

<400> 20968

agcttttata caaatttcta ttttaaaatg caaaatgtca tgatttacga ttacaattct 60
 tttatcta atattttacc ttttaaaaat ttaacttaaa ttttaacaata cccgtataaa 120
 gactagtga tggaaaagac aagtacaaga ataactttgt attggttgat tcaactcaact 180
 cttcagtaaa aattaacttt cgaataccaa tgtttgaaaa cccaaaatca gatcgctcat 240
 taaacaactt gattatttca atatgcaaca tgattaatct aagacaaaaa ataactcctaa 300
 tttacaaatt tagtatggaa tcaaccaaga aaaggctatg cacacaattt gtcaagcaga 360
 gttttcgctc aaggacatag ttcattcaatt 390

<210> 20969
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20969

tgctangtta ttttcatacg ctatgagtct taacttattc agctcattca attggttgcta 60
 cctgaagcta cctacaatcc taagatcaga gttcataaac tatatagccc acatggctgc 120
 gtgaacaagt ccaacaagca gatggaaatt ctttcataaa actatactaa agggagacat 180
 catagcggga gccctacagg gttttatgta tgcccatatt gtgtcatcca atttcaatga 240
 ccaaattctt ctatatgctc tcacagtttt ttgtaaaacc ttctatagat acctattata 300
 tacctcaact taaccaattg cttgatgggtg atacaaagta ataacttat gggtaacacc 360
 atatttagcc acatggctat cagacaa 387

<210> 20970
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 20970

tgcttggtgt ctatgtgctc accaactact gatgagaatc cctatcgag cagcatggct 60
 accatctcga ttacaccacc gtgtaggacc gccgtcaccg catccgtatg atgcgcctaa 120
 acatccatgt gaactatcaa ggccggaggc acccgaatat acaatctctt agatataagg 180
 gaaagcgtcg ctcatgaatt gacctcatcc ctgagatgta acctatttca ctagaatcgc 240

cgtatgacta ttaatgtttt ctttttagtc tgtcgtggtg a

281

<210> 20971
<211> 391
<212> DNA
<213> Glycine max

<400> 20971

agcttccatg tccaagtttc ttatgccaga cccaatgatc ttgtttgaca taaagtaagc 60
aagattttga tttgataact ctcttagtct aatcttataa agatttcctt ttctcttagc 120
agaataaagt aaagacacat ttttgttctg gatgatacat tcattccttg taaagaaaac 180
atcatatcca ttgtcacata attgagttat gctcagtaga ttgtgtttga gccatttaaa 240
aaataagaaa ttatcaatag gaggatatgg atgtatacct atcttaccca ctcttgttat 300
ttgccctttt ttattcccta tgaaagtgat ggttccacca tgataaggag tcatacattg 360
gaacatgcac ctttctcctg tcacgtgccca t 391

<210> 20972
<211> 536
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20972

cccactcacc cntcgccga ttcgcgcgcg aactcaana tcattgacgc ttcaataaca 60
ntnnnaannc agaggggnntt tgtgtgagtg ccctcggaan cccanncaa nntcaccccg 120
acgcgccaaa catacagctg cacgcagccc gctgtccgtt ttcacacca accacagaga 180
cggcgagAAC agacgtcaat caccacgacc aaagcaacca caccacgaag agtcctgcga 240
accgacagaa gaacgcaccc agaaaacggc gaggcacggc agaaaaaaaa agtgaccagc 300
cagaggacgc cagacaaaca acacaaaaag ccggcaccga gccgcacacc caaaggggtg 360
ccatccaaca aggcccggag aagagcccac agggggaagc aagcgacgat acaagcagac 420
gaagacgaga tgaggacggg gcaggaccag acacaagaac aaccacgca cgtcaaacga 480
cccagggaca gcccgcagag ctgagaacag actgcacaac gagaaccgcc acgccg 536

<210> 20973
<211> 377

<212> DNA
 <213> Glycine max
 <400> 20973

tagcttttgt gctaaaaaaa actatataac agcatcaagg ttctagtttt ggctctctct 60
 ctctctcccc tatttttcgt tttttagtta taagcttttt cttctctttc tccttttatt 120
 ttcgtttatg caattccagt ttgactattc attttagcaa taaaaattcg ttctctaattg 180
 attaattggaa agctaagtc ccaacgctgc tttctcttga ggatcaagca cagttctctt 240
 tgaggggtcta ttattattgt taaattctga tcaagttttc cttcttcgta tatactctcg 300
 atttggtgct attaattcat gcatgcttag tgcttgatta attttctctg cacttaattt 360
 acgctcatgc ttaatga 377

<210> 20974
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 20974
 tatcttgtat ccggtgcttg atgtcagggg gatgtttcct atcccaacag tcttgctcct 60
 atcttgattt cccatttgca tcgtaccaa gtcaccgctt tggtaggatg agaagaaact 120
 tccatgtgga gtaacatgga aggaggcacc ggaatcgaca atccaagagc tatcatcaca 180
 agcaatgttt atgatattac cttcaccaac gagatataac aaatcttctt ttgaaactac 240
 ggcagtagta ttcttctttt ctttcttctt tggtgggctg acttggtctg gcttaacggt 300
 accgattgtg tgatctctct tgaaggattg acattctatc ttctgtggc ccctccttcc 360
 acagtag 367

<210> 20975
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 20975
 tagcttgtct ttacaactct aaatgagcga tcacttcata tcctttcatg ccttgacaag 60
 aataccatta ttgtttttct tccttaatga tgaggacatg accaacagca atggcaagga 120
 tccaattgaa tgacttggag gacctatgac aagggctaga tcaaggaaag caaacgaagc 180

tcttcaacaa gtgttgcca tactatttga atacaacccc aagtttcaag gagaaaagtc 240
 caacgttggtg agttgtatca tgaccacat ggacgatgac taaatggcgc cacttctct 300
 caattataga gtgttcagtt tgtctaaata atggccaat ccatgtgaag tcggctgacc 360
 aaagatatgt cttgggttaa tcaa 384

<210> 20976
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 20976

agcttattct tgttctatat gatcggagcg ttgtcgcgaa agacagaggc cctgactgtg 60
 ctttctatga gagcatctac cgcgagtgcg tgggcttacc actgagtggg gatgtcttat 120
 cctgtacttc tgggcgcccg acgaggcttt tcattgacct ggtacctcat tacatatagg 180
 atggaatcat agaattattgg ctgcataacg cccgcgtata gagacatatt gatcgcttga 240
 gtgactttgt ggctggaacc ttaaagacat ctacgggtgtg aaaatgctgg atacgtcgtg 300
 ggtcaagact gcatggctcg cgactggcg ggaatgacat agctatgtcc tgggtactgag 360
 tacttcatga t 371

<210> 20977
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 20977

agcttcattc tttctcttta gtaatgcctt attcatcata tctacacat taaaggattt 60
 caccttcaaa gggccacaaa catttgaatg caccaattca agcaactcaa attttctgga 120
 gggagaatgc ttcttgaagg atactctggg ttgcttacca accatgcaac atgaacattt 180
 ctccaaattt gcattcttca atcctagaaa catatccttc ttggctaaac aattcagccc 240
 tttctcacta atatgactaa gccttcagtg ccacaaaaat gcctccatat ccataacatt 300
 cacattgtct ctagcaacca aagcttttgc ccaatacaac ttgaaagtt tctccccctt 360
 ggccacaatt atgttaccct tagtgagttt ccactttc 398

<210> 20978
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20978

agcttgccat tctgttcacg caggcgagca gggatgcttc ctccataagc aacagccttc 60
 tggaggaatc ttctggaggg cccaagtggg cctgggttgc atttgcaccc ccatttttac 120
 taagtacacc ccccttttct atttttttgc aactctttat ctgtaacggt acaaaacttt 180
 acgaactttg taacgatact tattttttct tctgcaagga tacgaaccct tacgacttat 240
 gtatgtactc ttttttagct ttcaaagaag ttacagaaac ttacggattg cgcataaaca 300
 cctctttttg acttccgtca cattacggaa gttcacggat cgcacaagcc tgcttccttt 360
 tgatntctga gacatcatcg aacttcattt at 392

<210> 20979
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20979

ccataaacca caacgcaagc ttaacggata acgantagat actctaccnn cagcaggtgt 60
 gatcgtgaaa ccaacgaccg cccgcgaccc caagcgacgc agagcagctc aatacaggag 120
 gaacagctga cggacgactg gcaaacgaca ccagacaaag caaaaacggg gacacaagca 180
 acgaccgcaa aacgagagga gcaacgtacc aagaacggga gaacggaaga ccgctacgca 240
 caaaaaaac tataagagga agggcctaaa gaaaccacac aacccatggg aagagactac 300
 cgaaaagcgg caaccacga gagcactacc aacaccacaa caagacgggt cgcgccacag 360
 aataaccaat acgcggaaaa gaggtaaaac agccgg 396

<210> 20980
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 20980

tcttcttatg cttgatccat catacaattg ataactatat cagctattta aagcctacac 60

<210> 20983
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 20983

agcttttctg tgcaaggaat atccaaggaa aattccatca tctgacttag catcaaattt 60
 tcctaagttt tcattaccat tgtttaatac aaagcatttg caaccaaaaa catgaagatg 120
 tgaaatattg ggttttctac cattaacag ttcatatgga gttttcttta aaatgggtct 180
 tattaaagac ctattcatga tataacatgc agtattaacg gtttcagccc aaaaatattg 240
 tggaacagga gtatcattga ataaaggctt agcaatctct tccaaagatc tattattctt 300
 ttcaacaact ccattttgtt gaggggttct aggtgcagaa gaattatgtt caatgccatg 360
 cttttcacia aatagatcaa attctttatt ttc 393

<210> 20984
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 20984

agcttcatat tatctgtgag tgattcacgc ttaacgtcac tatctgcgct aagcgtactt 60
 ccaatgattt caaaacaaaa cgatgttggc gcttagcgca tcctttcccg ctaagctcag 120
 cttgaaagct caactgacaa aatgaatttg ggacttacgc tacaatgacg cgcttagtgc 180
 aactataata aattctcata gagaggaagt ggcgcttagt gcatcatcca cgctaagccc 240
 actgcttaag gtgcaactca cagtgaagat gatgggctta gcgcactgat gtgcgcttag 300
 ctgaaccatt cacccaatca atcatgggtc tctgcgctta gcatgagcaa gctcagctta 360
 gcgcgtgaag agatggtgc 379

<210> 20985
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 20985

tggaagctgg atctttgagc tttcaagagg ccatcaatg gtgaatctcc accacggaga 60

tgcacgga gacaaaggag aagaagtgag aggaggcgcc atccactacg gaataaccca 120
 tggaataagg atctttacca cccacatgat cattggataa gaagcttgga gaggatgcct 180
 cattggagga aaataaagag ggagagaaat gagagagggg gggagcacta aacttgaagg 240
 aaaaaaaaaag tgttaaagct gaactttgag aggtggctca caagactctc attcatctaa 300
 gctacacaag tgttacac 318

<210> 20986
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20986

tatttgtgct caatgaaagc accaatgata cctagctttc gagggctagg gaacctccgc 60
 gatacccgctg acctttggaa gctcgaagga actcgcaaag agagagaaaa cgcgagttca 120
 gagagagaaa ctagaagaag aaaaggactc gagaggaagg aagagaagct tctggatttt 180
 tctatatcc ttcaagggtt gttacaactt atttatatgc gcgagggtcc acaactaacc 240
 gcaagtgggt agctactgct gctagcccta actaactaaa caacatctaa ctacccttcc 300
 cgccaacgaa tcacaagaac agcttttacc caggccctct tctcctaact ggtagatata 360
 ccagtgttta ggtagttgct tcgttcgtct 390

<210> 20987
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 20987

atcttatgcy catatttcct tacgaacgtg cgcttgacac agacattctt tcaactaaaa 60
 aaaaaaatgc accatatac aatcaaggca gcttcattac ctgattatt tacatgtact 120
 tccaaggtgt atttgttact tacataacac acatctactt ggctaaattt acatacatgc 180
 atactcaaag cattttggg taccaaaaat tgcacatgtg cacatcttgg catatctaata 240
 acctatacaa acttcatgat gaatattgac tatctacaca ataaagtgt acatttcatg 300
 ctcttttcaa gcttttgcta cctaaagccg tatgcaaatt caagtatatt ttacttttgt 360
 gac 363

<210> 20988
 <211> 80
 <212> DNA
 <213> Glycine max

<400> 20988

agagagagag agagaaaatc cggggggggg ggtgccaatt tattgaaatt agggaaaaaa 60
 attgaacttt taagtgtgtc 80

<210> 20989
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20989

cgcttgtgga gcttctatgg aagctggatc tttgagcttc aatgaggtec tttattggtg 60
 atttttcacc atagagatgc agcggaaggc aaaggagaag aggagagggg aggcaccatc 120
 cactatggaa taagccaagg aagaaggagc ttcaccacca agaattgcct tggataagaa 180
 gcttgaagag gatgctttaa tggaggaaaa gaaagagaga aggggggagc acgatattca 240
 aggaataaaa gagggagaga agtggaaactt tgaagtatgt ctcaacaagac tctcattcat 300
 canagttaca acaagtgtta cacatgcttc tatntataga ctaggtagct tccttgagaa 360
 gctntcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagctaga 420
 gcttatctac acacaccct ctcataacta agctcacctt cttgagaagc 470

<210> 20990
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 20990

agcttctaca ttggttgaaa accggtatct acgacgggcc ccacaccgtc tttggtccaa 60
 atgtcgttgt atgtcgacca caacaacatc ggtcatecta ggaccgtct tttggtatgca 120
 agaatacaac gtcagtggct ataaaagaat agacgtttta aaaaaggatt caacgacgca 180
 catattagac aaccgctcgt ttgtttgggc catttcaacg tcgggttcgc aagactcatc 240

gttgttggtg tccatatcaa cgtcgggtac caataacacc cgtatttgtt ttgtttctgt 300
cacatcggtg gcggtcaca ccgacgttgt ttggagtatg taacgtcagg gtgtgacacc 360
gtc 363

<210> 20991
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20991

cttgtaggat tccgggggtac ccatcacatg tggactaag tggcgggtcgg gcgatggtgc 60
acaacaagtt ctacacatcc acggtgcgcg cataaaccce ccateccctg ttgcccacct 120
ccaactgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc 180
ccatcaatcc tctcaagctt ccacaacatc caagcaaaac aacattcaaa cagcacaagc 240
tatcacagcc aagcaaaagc agagcaaagg cagataactc tgctcaaaca ccaacaaaaa 300
tcacagcttt tctcacttaa agaccacagt aacaatttct tcgatccaat tcgttaaccg 360
ttggatcgac tccaaaattt tactggaagt ctatagtgc taagcctaca ttgtgaccgt 420
tgngatctac tagcaaacat caagaactca ttctgtacta ctctttccac agc 473

<210> 20992
<211> 406
<212> DNA
<213> Glycine max

<400> 20992

agcttgggta taagcttttt ttgtaaaagc caagagtgat tgtgaataat acttgtaact 60
ctgttaaagt tagtggaact ttttagattt ggatagccca atgtgattca tctagacaat 120
cttatatacc gatggttttg atgattacac agatataaat tgctgatgga ctaatgattt 180
acgcttaagg aaatagggca tatttgatat aagcttgatt ggaatatact tatatgctta 240
tgtgttacca gttatcatgc aaggtaattg gaacttattt gtataaccac tatattctgt 300
gtccagagca ctgctataca gagagcgttc aatgatattg ataaaattag tcctatgcgc 360
tatgtgttca tatgtgatta taggacatga ggaacctaca ctaatg 406

<210> 20993
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 20993

atcgaaaagt tggctgagac ttgtattttc ttcacaaacg gggcatgcat gatgaccctt 60
 aacactgtaa ccgctgagat tcccacatgc tggaaagtca ctaatgagac agaagagcat 120
 tgcactcagt gcacaggtga tacttgagaa tcgcatcggc ctctactaca ccctgattcc 180
 acagatttct catatcgtca accaacggac ttagatagac atctgtgatc tttcctggct 240
 g 241

<210> 20994
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20994

agctttcttc aacaaacaaa gccttgattc aagatttctt caagatcaag ccttgcctca 60
 aaacaaaggg tttcaaagtc atgcaaggct ctggtaatcg attaccagaa gggaagtttg 120
 agaaatagct gttgaaaagg gttttgaaat tgaaatttga acatgtaatc gattaccatn 180
 tntttgtaat cgattaccag caatgaaact cctgatattc aaattcaaaa gtcacgaccc 240
 ttcaaaatat aattgtgtaa tcgattacca gaaacctgta atcgattacc agtgaagaaa 300
 ttcatataaa acttcttgaa aagacacatc tctttacacc atattgaaaa ggcattgaatg 360
 gcctatatat atgtgtgtgt gtgactt 387

<210> 20995
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20995

ctcaagcttg agaagctctc tatganatga aataatcgac tgccccattc tgtaatcaat 60
 ttctaagttt ctaggaatgg aaaattagag ggatttgaat gaattaattg actatctcat 120
 ttgttaatca attaaatttg ctttttctgt taaaactata tatacactta cttgttcatt 180

cttattagtg actcttgatt agatcttatg ttttaaaaat cctttctaag gttatctaac 240
 ggaaccattc tgcatttcaa tgagagattc atgggtgttca agatttggtc attttttacc 300
 atggtttgag caaggaaaga atgacttgaa gatattgtga tatgcacatt ttgggtgtatt 360
 caatcatgtt tcgatttctt tctacgttat taccttgatt aaggttatca aggatattat 420
 gtgagttctg atctttcttt tgtaagggtca cgacaagagt ag 462

<210> 20996
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20996

agctnttcgc aaagcttatg gtaaaatccg ggacctagcc atggtagaag tctccacaga 60
 ggccattgcc tccctcgccc aatattatga tcagccattg aggtgcttca cctttgggga 120
 cttccagcta tcacccatgg tagaagaatt taaagagatc ctaggatgtc ctctaggggg 180
 aaggagacca tacctcttct catggttcta tccctcatta gctagaattt ctaagatagt 240
 ccaaattctca gcgctggaat tagaccacag aaagcaagtc gaaaatgggg tggttggaat 300
 agcgagaaaa tatttgagg taaaagcaag aaacttgga ggtaaaggcg aatgggcccc 360
 attcatagac attctcgcac tgtngatctt cggaggagtc ctctttccga atat 414

<210> 20997
 <211> 98
 <212> DNA
 <213> Glycine max

<400> 20997

ctcttttacg agttcaggac tatttgcatg gtatatgacg acaagtcagg attgttcgag 60
 actggtcgcc atagatgtca gttcagagga aataaaac 98

<210> 20998
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20998

cagcttttat ctgatatgaa ttataactac caaagttgag tctaattctat tgattttttt 60
 tttgggtcttt ggacatggag agaagatgca gacgtgcttc tcaaacttgg ttccaaacat 120
 gcacctactt tttacatgtc aattttttaag atctcagctg aaaatctact tacaccgctt 180
 gttttgtata aaagcttata aacgtgatag gctataaata gaccttttaa catacctatc 240
 tcttttttgg tttgcttcac ttgtcagttc gattttacgtg aggcaaggta ctatttttat 300
 gagataagca aatcaaggta attttatgac tntaatcctg tttgggtgtca attttcttca 360
 cattttattaa ttntatgact tcttattttta ttttttagac tgaagtca 408

<210> 20999
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20999

tgtgggtatg atacacaaaa gaatagaagc acataattga ttatattcat cttctaattn 60
 tgccggatca actagttaac ttgaaattga agagcgatta atatgtttca cccttcataa 120
 cttataagta catgttgata acaaaaaata gcatcttcaa atgacaaaca cattaaattt 180
 attttaatca ttttgaaaat tatgtatttt aaaaaatatt gggcttcact atggtcacaa 240
 agttgtatag aatttgtggc tgttgggcat aattatctct aaatttagat tgttatttta 300
 aggaaaaaaa atcttgaaag atgatagaga atgaattcgg tgatcgaata ataataacag 360
 ttatataaca atgatgaatg ttgttattga aaagcacata atattcatct tctaatttca 420
 tcggatcaac t 431

<210> 21000
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21000

tgcttataaa tcttcccaaa atcatacaaa caaagattaa tagactagaa tgataacgtt 60
 cttattttnt caatcaaaca atcgtttttg atcaaataaa aaaaggactc attgacatgt 120
 ttattcacca gatttttaaat agtctgctgt gcatgacaaa aagaaaagca gtgtcgagaa 180

gagatttgca ctgacaaatg caattacagg taaaccacct cctgggggaa aaaaattgac 240
 caagcaaacc tgtcaatgct aggaatggga aaagaacaaa gttaaattgaa atatgtatca 300
 gaagtaccgt tgacagacta ccacgctgag cctctggtgg aatctcaaaa tccagttcac 360
 gtttctgcaa aatcatgcat ct 382

<210> 21001
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21001

tgtaatcgat taaaccgata tgaaaactta tctgcaagct attatacact tatgtaatca 60
 attacgatta gcctgtaatc gataaaaata gagagtttta aacacagaag aaattttcta 120
 actttagaac ctttcttctt actcctacat gatgatgcat gatgcacata tgaaaagata 180
 gagactaaga tgcaacacac atacaataat caatacaaat gtcactcaaa agagttggac 240
 atgtaaaaga caaaacttct tcaagcttca aggctaagtc ttcattgttg tccacctatc 300
 tctaacaata gacagggtat ctctaacctc ttaattatnt ggatatacnc taaccacttt 360
 atctcttgca ggtatntaat tatctacaag caacacatta tctgttagta ctaaattatc 420
 tactagctnt tatctcntaa atatatatta tctctaata 458

<210> 21002
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21002

agcttacaca aacattcatt agtccaaaac aactcaaca natagtcac atccatccac 60
 aattccaatc aatcatgctc agtatgatgc atgcacctga cctcaaattc caaatgcaat 120
 gtggtaccat tatcaaggaa atagcctaag agtctccaca tgacactctc acttatgaaa 180
 actaggcagt aagtgtcgag gtcaccctgt catgcacagg aaactcccc cccttggtga 240
 tcaacctgag tctcaaggga attccaaatt gaggacatg tgtgacatcc tggaaatttc 300
 taccggaat ttntgtaaac ggtgcatntt gaatggctat atatatatat aagtattatt 360

cagtgtatgt atatatgtat atatattcct ggtaggagta ngtatTTTgg ggg 413

<210> 21003
<211> 423
<212> DNA
<213> Glycine max

<400> 21003

tgtagggtta aagtctcacg attgtcacgt gtcacccaa ctattgtag cegtggctat 60
acgagacatc ttgccaaaca aagtcagggt cacgataact cgctgtgct ttttcttcca 120
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180
aattatactg tgccagctgg agatgtatTTT tccccctgct ttctttgaca tcatgattca 240
cttgattgtg catctgggtca gagaaatcaa atgttgtggt cctgtttatc tatggtggat 300
gtacccgggt gagcgataca tgaagatctt aatagggtat acaaagaatc tatatcgtcc 360
ggaagcatct attgttgaga ggtacattgc agaagaagcc attgaatTTT gttcagaata 420
ctt 423

<210> 21004
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21004

agcttgaaga ggataattta atggaggaaa agaaagagag aaggggggag cacgaaattg 60
aaggaataaa agagggagaa aagtggaact ttgaagtgtg tctcataaga ctttcattca 120
tcaaagttac aacaagtgtt atacatgctt ctatttatag actaggtagc ttccttgaga 180
agctntgttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 240
agcttaggct acacacaccc ctctaataac taagctcaca tccttgagaa gcttccttga 300
gaagattcct aaagaagcta gagcttagct acacacacat ctctaatagc taagctcacc 360
tccttgagat gagaagctag agcttatgta cacaccctct ataatagcta a 411

<210> 21005
<211> 448
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21005

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tcattcatta gaaaatagcc taagcgtatc cgcgcgacat tctcacctaa gaatacttgg 120
taacaagtgt cgaggtcacc ttgtggtgca tagacaactc cctccccccc cccccccccc 180
nngcatggtg atcggcctga gtctcaaggg agttccaaac tgagtaacat gcccccaagt 240
ataagtatgt cccctcatga gaaactacaa gtacttattg gcaagctatt tccatgaaat 300
atgaagtatg aaacataggc accatcaatg cattgaccgt ggataattaa agattttaat 360
tcatccccct ctagagatgc tttaaactct ttaaccattc tatttctccg accaaggata 420
tctatcatgg tcaactgcac cctcatgt 448

<210> 21006

<211> 395

<212> DNA

<213> Glycine max

<400> 21006

agcttgtgca tagttgttac agacaaatgg acctacaaaa ttaataatca aatagtattg 60
ataaaaaatg tgcataaatc aagtacaaac ccttcaaaac aaagtaaaat caaatagcaa 120
ttttagctga aaatagaaaa agaagaaaaa aaagggataa gaaactaaag ttacaactaa 180
atgtaagaac aaaatcaaaa ccttgaaat ttaatgtgtg tgagagagag ctgaaccgaa 240
tgaattgtga cttttgaaaa acaaatcaaa gtgaaaataa atagaagaga gtgattatgt 300
tgaactaaga aatatatact tcgtggcatg gtttttgcac agccatatca taatcgtcct 360
ttgagaccat tgagaaatcg agattcattg gcaat 395

<210> 21007

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21007

cgtgacacta tgaaactcag ctnataagcg cgggttcggg agacaaaggt ttagcgttcg 60

ctatatgcga agatgatatt ccgagtactg tggatttggc ccgaccatgc cctcctgatt 120
 tccagctggg aaattggcga gtggaggaac gccccggcat ttacgcaaca agcataatgt 180
 aaacctttac ggtnttaaaa gctctatagt tgggcctaag ctttagagtn tttccttttg 240
 ttaagggctt gtgtctcttg gttttgaaat tataatacaa ggatctttct tcatctgttc 300
 ctgggtctcta cccactctca ttcatttgta tgtttacttc tttttctgaa acggcagatc 360
 cgatgacgag tccccgaag gtactaatac ctgtgacccg tctatcgact tcgagcaaga 420
 aatgaatcan acggaagatg aaggaaatga tgatgt 456

<210> 21008
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21008

tctcatactt tatctcgacc catcgatgtc gttaatttta ataacaaaan naatnaagcg 60
 tgggtgtgctg atgcactacc aatggcgatn agccggcccc ggataactta gacgactgca 120
 gcatgctatc tttgtcctc cgcaagcctt cctggacag ggccctgaaa tcaccgaacc 180
 ttttatttta aaaaaaaaaa aatggcgggg attttgcttg gcccaaccacc cctgggcca 240
 aattataaaa aaggacgaag gggaacgtt ttgcattcaa aacttttttt cccccattc 300
 aaaaccatac ccccggaatt tacaagttg cagcctaggg cactattttc aattttttga 360
 ttcgtttggg ctgtattcat cacaacaagt agtatecttc ctaagcttca gctttcatgg 420
 gtatttgact ctttgtgctt aaatgcgat gagccaaaag gggggattcg gtggttctgt 480
 tggcgggga 489

<210> 21009
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21009

ntataagcgc gggctctggga gacgaaggtc tattgttcgc gatatgcgaa gatgatgttc 60
 cgagtacttt ggatttggtg cgaccatgcc ctctgattt ccggctggga aattggcgag 120

tggaagaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180
 ctctatagat gggcctaggc tttagagttt ttccttttgt taaggctttg tgtcttttgt 240
 tcttgaattt ataatacgag gatctttctt catctgttcc tggctctctac ccattctcat 300
 tcatttgcat gtatacttct ttttctgaga cggcagatcc gatgacgagt cccccgaagg 360
 tactaatacc tgtgacccgc ctatcgactt cgagcaagaa atgactctaa cggaagatga 420
 aggaactgat gatgtgtgac t 441

<210> 21010
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21010

agcttgtaga atggctagac atgatacatg tcagggcttg gtttggttca aggataaaag 60
 ggggtgcccc cattatttcc atgacacaaa tgcaaaaaat gatgatttgg aaactttatg 120
 caaaactggc catgcatgcg cctatgcgga cgctcaagtg tcaaattttt atgggtcatgt 180
 gatgctaggg ctcacgattc atttctctta tcttaaatac acccaatgtt tccaaaatat 240
 gatcttttat caatttgtgc attcctccaa gtccacttcg ggcgttcggt gaaattttca 300
 cagcattcac ccttcaggtg tagacacgtt ttttttcttc aaaaatcggt tatgatcatt 360
 gaattntttt caaagaatag ttggaaatca tctcttttca aaag 404

<210> 21011
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21011

tgtctancgc ttatgcttta cggagactat cttgctagct atcatcgcca agtaccaaga 60
 agagttaggt ctatccgcgg gccacgagca tatgattgcg gacgaatatg cccaagtata 120
 cgcggaanaa aaggctagat gaagggtgat cgactcttta caccaagagg caaccatgtg 180
 gatggatcga tttgctctta ccttgaacgg gagtcaagaa cttccccgat tgtttagccaa 240
 ggccaaggcg atggcagaca cctactccac ccccgaagag attcatgggc ttctcggcta 300

ttgtcagcat atgatagact taatggccca cataattaga aatcgtagga cacttgatg 360
gtctctcaga ccttgactag atatgacttc cttt 394

<210> 21012
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21012

agctttatct tctttangaa tcttcttaag gaagcttctc aaggaggtga gcttaattat 60
tgaaaggggtg tgtgtagcta agctctagct tctcaaggaa agtttctcaa aaaagcttct 120
caaggaagtt ttctcaagaa agcttctcaa ggaagctacc tagtctataa atagaagcat 180
gtgtaacact tgttgtaact ttgatgaatg agagtcttgt gagacacaac tcanacttca 240
acttctctcc ctttttcttc cttcaatttc gtgctcccc tccctcttctc tctccctctt 300
tcttttcttc cattgaagca tcttcttcaa gcttcttctc caaggctcat cttgggtggtg 360
aagctccttc ttccatggct tattccttaa tggatggcgc ctcctctca 409

<210> 21013
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21013

tgcttctaca taccctaatt tcgtccgng acaattggtg tcgacatgcg gatttttgcc 60
ggccgagttg agctgcttaa catcaatcgc tatgcaatcc atagggtttc acaatgttac 120
ggaaagaaat gagcaaatac tcataatgag ggcaattggt tgcgacatg tggatttttt 180
ccaaccgagt taagctgctt aacagcgatc actgcacaat tcgaagggtt ttgcaatggt 240
ttagaaggaa atgggcaagg aactcaagat gggggcaaaa tgggtccatta tagaacgttc 300
cacaaccctt gggccacact ggatccacta gatgacttan gggggaagca acc 353

<210> 21014
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 21014

agcttccatg atatagaaaa atgaaaaaacc tcaattactt gaaaataata aaacacatgg 60
 agaagttgac cataccagga aaataatttt tcagcaaaca tttctgcagc actaaaagaa 120
 ccataagctg aaaaccacaa gagagatcgg tgtngattca catgcagaca agagagcaca 180
 attagtagtc taaagttaca cccaatccca ctaacttgag aattctccaa acgagttcat 240
 ttcaaattca taagcaatga cccaaaactt tcaaagatat ataccctcat acgataaaaa 300
 ctactaaaat ggtattttaag ttgtacaagg aaaaatcaaa atacaccaga atagtcctct 360
 taagtcttaa cccgtgacct caatatatgt attctaccca tcat 404

<210> 21015
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 21015

ctctagatcc ttgaggtaat atgcgtcaag ctagtgcagt taaagaagcg cttactggga 60
 ggcaacccaa ctctttttct ttgttttctt aatcattgca tatagttagg tttcaacttg 120
 tttgggattg ctagagtaag acatcaacat gttttgtatg agaaaaaaag ggttggttaac 180
 gcttctgtga agctgtggat gagaaataac tctgaaaaat ttttagtcat ccactcgctt 240
 agcgctccct gtacgctaag cgaatcatcc ttcattgtgc gagcgagtcc tcaactcgcg 300
 taagcgcacc aacccttacc cattggctga aggggtccat ctaagcgaga cagttgtgcc 360
 aagcccaaaa acttcttttg aatcgcattt attggaattg ggctaagcga gtcaactcgc 420
 taagcgcacc tatgcactaa gcacaaatat ctctct 456

<210> 21016
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21016

agcttctaga caaattgcac gctagtatat ttctcgcctt tacgctaact tctataaatt 60
 tctgttacia aaactaattt cgcctttatg ccgccaaggt acataaagtt ggatctctac 120

cacacctcaa cactaaaacg aataaaccag atttgaatgc actttttttt tttaaatcat 180
aactacaatt tatcgtaaag agcatttcag catatgcac acaggtgaat gcatgtgttt 240
tctcacctgg attaaaaacc caatccatgc caatgccaac ccctacgtaa caattgggaa 300
gatcataaag aaggctatat ccaattcgga gatgaagaaa acgaaactgt attcaatgca 360
aaagaagaac acttggttaa tctctagcaa aggaatntac atcaatactc 410

<210> 21017
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21017

tgcagctaaa caggccaaaa agttgagtag attnttttcg agtggtcgtg aatcatcgac 60
taccatttgt attgcttgta agcttgggtt cttcatgttt aattcccgta aacaatttga 120
taatacaatg aaggggctaa tggcttatat tccaattgct tctatgataa gtattatttc 180
catctagcag atatatgaac atgaacacgg aagggggaac aaactcagac caacaaacag 240
gatctaaaat atgtccgtaa aatttttctt tcgtggaaga taacgagtga ccgagctgcc 300
gttgacagaa tcacagttgc tgttcttcat agaccgata aagggaaca tattaatcca 360
ggtttccatg acaagcgtgg cgagtttgag gacacattnt cccttgaacc atcatttcgt 420
gagtcgatca cttttttacc c 441

<210> 21018
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21018

agcttttctca aagtttttcg gttttccaaa ccttgaaaac ttgtgctatt catccttttc 60
attctcttct ccctttgccc aanagaaatc accatggact aaccgcctga attctttttg 120
tgtctctctt ctcccttttc caaaaagaac aaaggactaa ccgcctgaat tcttttgtgt 180
ctcccttctc ccttgtcaaa gaattcaaaa cgacacagtc tgagaattct tttgattctt 240
ccctttccca tatacaaaag atttcaaagg acaaaccgcc tgagaattct tttgtatccc 300

cattcacaaa gtttcaaagg tttaaccgcc tgagatcttt ctcttaacac attggagggt 360
acatcctttg tgggtacaagt agagcgtaca tctacttgng tttgactg 408

<210> 21019
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21019

tgtaggatta tggngtacct atcacatgtg gtactagggtg gttgtcgggc gatggtgcac 60
aacaagtttt toccacatcca caatgcgcgc ataaaccac catcccctgt agcccacctc 120
caactgagct cacgtactcc cacgtagccc atatcctcgt ttctctcaac accgggtccc 180
catcaatcct cccaagcttc cccaacatca aagtaatata acattcaaac agcacaaact 240
atcacagcca agaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaaatca 300
cagcttttct cacttaaaga cccagtaac aattccttcg ttccaattcg ttaaccgttg 360
gatcgactcc aaatttttac tggaagtctc tagtacataa gcctacattn tgaccgttgg 420
gatctactag caaacatcca gaactcattc 450

<210> 21020
<211> 415
<212> DNA
<213> Glycine max

<400> 21020

agcttcaaaa ctcaactcga ggatttgaca aagaacagag cctccaaccc tcccttcgcg 60
atTTTTTTga ggtaatcatg atttctatgt tttttcctag ttagattgag cctattagtg 120
tatctcttgt gatttggtta ccgttattag atgtttttac atttcctttg aaaaaccctt 180
gaaaatgaga cattataaaa gttgtctttt ataaaattga tttcgttttt gtgacctctg 240
ttgaaccctg atcacattgg cgtgatcgtt atttcaaaat gacatctctt tgatgtggac 300
cccaaaaaca ccattttaga cccttttaaa attgaatggg tgttttaccc cggatgttaa 360
aattgacatt gtctttgaaa tctatactaa attgtctttt gattgatata taaag 415

<210> 21021
<211> 428

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21021

aatggatgta aagagtgcac tnttaaatgg cttgattcaa gaagaagtat atctagatta 60
tcccctagga tttgaaaact cagacaagcc taatcatggt tataaactga aaaaggcttt 120
atatggtttg aaacaagccc caagggcttg gtatgagcgt ctgagtaaatt ttattttaaa 180
taaaaaattn tctagaggta aagtggatac cactcttttt ataaagagaa aactaaatga 240
tattctattg gttcaaatat atgttgatga tattattttt ggatccacta atgagtcatt 300
atgcaaggaa ttctctcttg acatgcaaag caagttcgaa atgtcaatga tgggagaatt 360
gaattacttt cttgngttac aaataaagca aactaaagaa ggaatanttt tcaaccaaga 420
aaaatact 428

<210> 21022
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21022

agcttttgaa cccacacttg tagcgtcaat gcaaggaaac atgcttatgg ctaggaatcc 60
aaaatttggt tttagagtta gaaaaacatg aaaattaaga tttgcttggt agaagttttt 120
gctcgaattt gggctgcccc atgtttgata ctttacatag aggtagcgtg gaaaacacct 180
tgcaatagtg tgtatacata ggtaaataata aggagcatga aattcctagc aaagtatgaa 240
taattgtttt cttaaatgaa tgtatgatag tgtggaatgc cttttttaaa tgcaaataatg 300
tgcaggatgt aattagcttt ccaatatgca tataaataaa taggagtgaac acagtaaaaa 360
tttgtatggt gtacttcana tgtacgtaag tagtttgtga t 401

<210> 21023
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21023

tanacattca atttcgagcg tctcgatata ttacgggact ctatcaaaca tacgagaaaa 60
aagttattgt ggtttgaatt tgctctcagc ttcaacattc aatttcgagc gtcgcgatat 120
atattacgag actcaatcag acatccgaga aaaaagttat tgtcgtttga attggctcag 180
aggttcaaca ttcaatttcg agcgtctcgt tatattatgg gactcaataa gacatccgag 240
taaaaagtta ttgtcgtttg aatgtgctca gaggttcaac attcaatttc gagggctctcg 300
atatattatg ggactcaacc agacatccga gtaaaaattt attgtcgttt gaattggctc 360
ataggttcaa cattcaattt cgagcgtctc gatataattac gggactcaat caggaatccg 420
agtnaaaagt tatgtcgttt gatttggc 448

<210> 21024
<211> 308
<212> DNA
<213> Glycine max

<400> 21024
agcttcttat tcttggctga tgaagatgaa tttgtggcta cttcatgcac tcctctaattg 60
acaatagcat catttctggc actaaattga tgggagttgg aagccatctt ctgaattaaa 120
tttctggctt cagcaggggt catgtctcca aaggctccac cactggcagc atttatcata 180
cttctctcca tgttattgaa tccttcataa aaatattgga gaagaagttg ctcagaaatc 240
tagtggtgag ggcaactggc acataagttt ttaaattctt cccagtattc atatatgctc 300
tctccact 308

<210> 21025
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21025

tatgctgcan atatttataa tagaccctct cagtagcaaa actcaacaac agttttataa 60
ttatgatctt tcaagcaaca aatacaatcc aggttggagg aatcatccaa atctgagatg 120
gacaagtcct ccacaaaaac aacaacaacc tgtccctctt ttccagaatg ctgctgggtct 180
aagcaagcca tatgttctct ctccaatata gcagcagcaa tagcaacagt cacaacaaag 240
acaacaagca actgaggccc ctctcaacc ttccttagaa gagttagtta ggcaaatgac 300

catctagaat atgcaatttc agcaaaagat aagagcctcc attcagagtc tgacaaatta 360
 gatggggtag atggctactc agatgaacca agctcagtc taaaattctg acaaattgcc 420
 ttcgcaaact atgcagaatc cgaaaaatgt gagt 454

<210> 21026
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21026

gtttttgccg gcgagaagaa gacttctgcg acggatacca cttangaaca ccatctatga 60
 atgagcgcg gagaagactc tggaccaata agaataagtc gaagaatggg agaaggttgt 120
 tgctgggtgc acggacgatg tatgagcgcg gaagaagaca ggtttttttt ttagaaaatt 180
 tattaagttg tgatttttaa atgaagggca ttttcgtaac ttcaatgaat tgctgggtgc 240
 accaacaatt atgctgggtg cacctagcaa cagccggccc acaatgagaa aaagatccca 300
 aattttattt agtactaata tacctcaa atatatattat tgctaaatta tatgtgataa 360
 taaatgttac ataaagcaat tataatttta ataaatta 398

<210> 21027
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 21027

gtgtcgggtgc gatcgggtact ccgtagttgt ggcagagacc tttaatcaat gccggataac 60
 ccactgcact attggacttc tcaaggtcca ccgggtgtct cgggtggtgca atacctacaa 120
 actagtggat ggcaftaag ataagttacg ccatatggac attgatctgg gtcatgatgt 180
 tatagaccaa ctgacatttg ggtagcgtga gatcagagtt atggtcactg ggaaggatgt 240
 tattgagcag gagcgtcatc caaatttgag ttagagtggg catgctagtg cgcagatgcc 300
 gcacccgcct ccttgctacg ctccatgcaa aatcatgtcc cggggagcaa agtagctgac 360
 ttatggcctc ttcattcaaa acctaaaatt ggcttcttct ctcaatgtac ttgcatcatt 420
 gtccctc 427

<210> 21028
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 21028

agtctgttgg taaccacctc cctcttttcc cctataaata ggggaaagag ggcaaagcaa 60
 attcgttcag cccttctggt atttaggatt cacttgaaat tagtgacaaa aattgttttc 120
 gtgaagaaaa tccaagccga ggtgcttccg taacgcttct gagacgtttc cgtgagcgat 180
 ttcgtgaaga ttctccaccg ttcttcatcg atcttcgttc attcttcgtc ctacttcggt 240
 cttcaaccgg taagttcccg aaatcaaacc tttcaattca ttctatgtgc ccttagtggt 300
 ccacacttgt ttgcgtgct tttattttta tttcgtttgt ttcccgtaac cctgtattga 360
 tgtgttttaa ccattcatat aagtcgtttt ctgcctaata 400

<210> 21029
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21029

ggaggagtgt gcaagtgagg actcacnct tgtttaacac cttcttacgc naatatgctg 60
 gccnatgtgc gggagtactc gcctgacacc catcatccgg tgcaactccc gcctacacgg 120
 tagctcattt tctcccaagc cttgcatcat ctagtgtttc tcaaaaacga aaaccctca 180
 atcatgctca cgatcaaagc ttgaggttcg caatgttaca cgaacaaact ctccgggcaa 240
 agaactgacc tatgcataca cttgccca tccaagcaaa agccagcggt tcaattatga 300
 cccagagcag tcctcggtca ttcgtcaccg tggacgaccc acttttatgg aattctatac 360
 tagactcatt tgacggtgga ctttacatac tccaaataat ctgcctgtcg 410

<210> 21030
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21030

tgtcttatgg tgatggagag agaaggggta aaagggataa aaagaataag aaagaacgaa 60

taaatctcaa tcatcaatta ataaaaatct gacgatgtaa aatgcatcct caactctcct 120
 tatagctaga gtctacaaaa tttaatgcct ttaagatttt tgtgtgtgag tgaaaataat 180
 aaatatttgt caagattaaa tcacaaaagt tatgtaagtt ttttaaaaac tcaatcattc 240
 ttttaaggaa taatataaca ttaaattttg aatatatata tatatatata tatatatata 300
 tatatatata tatatatatc ctagatatac ttatctcact ctcatattaa aatagtcac 360
 ctaatatattg tgtatgtcat cctaataattt gtgtatgtca tgta 404

<210> 21031
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21031

tgtcaaccac gatgcccagg tgctagtgtc cttactcat ctgcaagtta gagcttatat 60
 ggaccgattg gggttatcag ctcttggtac ggtgcagtat cctaccgcat agtggatgat 120
 gtgtccatga gattaccatc acggtggatg atcttgtctg ttgcacttac ctgtgacaag 180
 aaagcccatt tatcatgtcc ctctgctctt tgatagtgtg gcggtgaagg tttacatggc 240
 tagtaggcct atctcaccgt tatgttgatt taggctcgta tgtttgggct atcatgactt 300
 atctcatgca cttgatcgac antatgatac ttatatacaa gtcacgact cacattcatg 360
 tcacctacct ttagtatctc aacaacctgg atgcttgcca ctagtacgca tgggaagtag 420
 ctacactggc gtgcctttac aaccatct 448

<210> 21032
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 21032

ttatcttgta acaattttaag gggttatgtta gggtaaacag atcaatttaa ctccctttga 60
 atgtgtgtat catctaagtt ccataagtt gtttctataa tcgaaaagaa aatatggata 120
 aattgttttt atataacttg tcaggtgttt tcataagtta tcctagagaa ctaattaa 180
 taaccttgta acagctcatg gacatataat aagttatttc acaaattctc tctattatca 240

taagatatgc tcacatgagt cgttcaaaat aatatccaca ccctaaggtc gtaacagaga 300
aagaaaatta aaaaccatcc aagacataac agatgatatt cagacttaat atat 354

<210> 21033
<211> 441
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21033

tgcacattta cactaagact cactcaatca gatcactaaa tttatttgac atgttttttc 60
gtgaaaaaat gttaactatt aattattaat tttttgtttg tatgaaaatt gaaatccata 120
acctttctat tntgccttct tcactcacca ccaaaacaaa cattataacc ccaaagtatt 180
tgacatatta gataattttt tctactaaaa tattatgttc atattagaac attttgctcc 240
tatcgttttc acgaacactt cctttaagat tcctttactt accacatgca cganatgagt 300
gtcaagtcca ttcgattgta agttaaacgc atagctggag cacatgcttc gtcaacacat 360
ttcgatattn tttattgggg ataccactac attttctttt ttaanataga gctagtaaca 420
aaaaacaggt aaaatgtgtt t 441

<210> 21034
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21034

agcttctatc caaatggact taccttgaat taattccttt gatagccctt ttgagccttg 60
tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
atataccttaa ggaattttgg agctttggaa ttgttttggg aataagtgtg gggggttttt 180
gtttcattgg acaacttgtt ttgttgacta tgcttcatga tgtattnngg gtcatacttg 240
atgtacattg tatattgggt aaatgttgga catgctgaat gaaatgttgt ttctcaaagg 300
taaaaaaaaa aaaaaaaaaa tcaaaaaaaaa aaaaaaatcc aaaaaaaaa gagagaaaag 360
caataaaagt gagtgaataa gatcttaaat ggcacaagaa tgat 404

<210> 21035

<211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21035

tgcatagcag nttctactac ttaagctgat tacatagttg tatgaagttg ttgtactcaa 60
 agtcttttga tgaagcaaca actcgaagac tttggagtaa accttgatca cattcctcta 120
 aaatgtgaca acacaagtgc taccaatcta acaaataacc cagtcaagca ttctaggact 180
 aaacacatat aaataaggca tcatttttctt agagatcatg tggtaaaagg tggctgctgc 240
 attgagttca ttgatagtga gcatcaacta gaagaaattt tcactanata ttctgctaga 300
 gataagtttt ttattagaaa tgaactatgc atgtagatg catctagcat aaaatgacat 360
 tctgttttga tagtgtgtga tgcacattgc tactcatatc natttgttt 409

<210> 21036
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21036

agcttctcgt tattagtgc cagtgtcata ccctaatttc gtccggggac ctttgcttga 60
 taacatgcgg cctttctttg gtcctttgaa agtgcttgac acccatcatt aagcaatttg 120
 tgaaattcca agacatgccg aaaaaccaa aaaatattaa tgcacaatcc gtaagtttcc 180
 gtgacacacc gaaaattaaa tggaagcatc gttgcataat taagcgagat tccgtaaaca 240
 ttccgtaagt caaaaagggg atgattatgt aatccggaag gttccgtaac attacgaaa 300
 gaaaataagt atcgttacga aattcgtaag ttccgtaac ttacgaana aagaatcaca 360
 aaananaaat cagagggggg tgtacttagt aaaaat 396

<210> 21037
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21037

nttgcaagct ggaatcattt atcctatctc tgatagccga tgggtgagtc ccgtccaggt 60

ggttccgaag aagaccggcc tcacagtgat aaaaaacgag aaggaggagc taattcctac 120
 tcgggtgcat aacagttgga gagtctgcat tgattatagg aggctgaacc aggttaccaa 180
 aaaggaccat tttcccctgc cattcattga ccagatgctt gaacgcctgg caggtaaatac 240
 ccactattgt ttccttgatg gtttttctgg ttatatgcaa attactattg ctcctgagga 300
 tcaggaaaag accacattca cctgcccctt cggcactttt gcctatagga ggatgccttt 360
 cggcctgtgc aatgcccctg gtaccttcca gcggtgcatg attagtattt tcagtgattn 420
 ttagaanatg catagagggtg tcatggatga tttcact 457

<210> 21038
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21038

agcttcttat ctaatgctca tcttggtggt gaagcttctt cttccaaggc ttattcccta 60
 atggatggcg catcctctct cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
 gcaagcttcc taagggtgtc ctcctcagtt ttagacttgg cgatcatgtc gtctatgtag 240
 acttcgatct ctcggtgcat catgtcgtgg aacacagcca ccatagccca ttgatagggt 300
 gccccgacgt tcttgagccc aaaggacatc accttatagc agaaccttcc ncacagggtg 360
 acgacacatg gtcttttcca tctcctctgg tgccatcttt atctg 405

<210> 21039
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21039

ctcaagcttg ctaacccatg gaagctccta atatctccca cactntntgg ggtgggcat 60
 tcttgatgg ccttgattnt ctcagggtcc acttgagccc catttctacc aactacaaaa 120
 cctaagaaaa ctatattatc tacacaaaag gtacacttct ctatatttgc atagagggtg 180
 tttttcctaa ggactgaaag aacttgccctg agatgtccta agtgatcacc taggctccta 240

ctgtacacta aaatatcatc aaaataaaca actacaattc tacctaggaa atcccttaag 300
 acatgatgca taagcctcat aaagggtgctt ggtgcattag tgagcccaaa aggcatcact 360
 agccattcat acaaaccaaa cttggtcttg aaagccggtt tccactcatc accnttttc 420
 atcctgattt ggtgataacc actnttaaga tcaatttntg aaaagata 468

<210> 21040
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21040

agctttgtgt aatcgattac actaatttgg taatcgatta ccagtgattg tttctgaata 60
 aatcaaaaga tgtaactctt caaatggttt ttgacttttt caaattgggtt ttaagttttt 120
 ctaaaagtca taactcttct aaatggttct cttgaccaga catgaagagt ctataaaagc 180
 aaggctttga tttgcttctc aatatacttt tccaatcaat cttataaaat catttacaag 240
 ccttgaatct ctttgaactt cttcttcttc tttgtgcaa aagctttcca aagttatctg 300
 gttttctaaa tcttgaaaac ttgtgctatt cattcttttc atctcttctc cctttgcaa 360
 anagaattcg ccaaggacta accgcctgaa ttctttctgt gtctctcttc 410

<210> 21041
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21041

tctaaaggag gtcaacaaca ggatgggtgt aaggaactat ggttgattaa actttctagc 60
 aaaataacag tttttgcttg gaggttaata gaagataggc taccaaccaa gatgaattta 120
 cataggagac atgtgcaact gcaggatctg cgatgtcctt tctgtaaaga agctgtagag 180
 gaggcattctc atttgcttct ccattgcac ttcacccaac caatttggtg ggcacgatg 240
 tcttggtga actatcatc tgcttttct cttgggccta aacaaaattt tctacagcat 300
 atcttcactg aggtaaaagg attaaagatt aagagatgga gatattgggtg gatggcggtc 360
 acatgggcta tatggaaact cagaaacaga attctgtttt cgaatgcaga attngatgct 420

aacagattgt ttgatgaggg ctgtttct

448

<210> 21042
<211> 414
<212> DNA
<213> Glycine max

<400> 21042

agcttccttc tcatcacttg caaacaata gaccttaaac aagccatgca ccactatct 60
caaactcttg ctaaccaata tatgtttgtc gtagtcatca atgaagattg gttaaagagg 120
aatagcaaaa taatagagta tgatcgcgag aaagaaaaga gaatgaaaa aactcattaa 180
taaaagcaga acaaggatgat aaaaaaata aaagaaattg gataagaata tttgagagga 240
aaggaagatc gtccgacaaa acaatacact tttgaaaata aaatagacaa tttatataaa 300
aaaaacacaa gtataaaatt ttcataagtt aaaaaataaa aataaaaata aagattcaaa 360
caaaagaatg aaaaatgaag aatattgaaa aagaatacga aatgaagggg aagc 414

<210> 21043
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21043

tgatgataaa ggtgaaaaat gtatctttct tgggtgtagt gttcagtcaa atttatataa 60
attgtataat cctaccacta aaaagatcat tattagtcgt gatgttggtt tttatgaaga 120
aagattntgg gaaaataaca tagatgaaac aaatcaaatt cttgcaaact ttgatgaaga 180
gttgacagaca aggttgctag aagagcaaca aatttcagca atcacagttg aagatgaaag 240
acctcaacga gcaagaagaa ggcattgatg gatgtctgat tataaggtaa cagaaattga 300
agatccgatt acttattttg ctttgttttc atattgtgac cctacaacct ttgaaagtgc 360
tgtcaaagaa gaanaacgga gaaaagcgat ggatgatgaa attgattcca ttaaaagaaa 420
tgataactng ggattgtgtg atcttccaaa tggacataat at 462

<210> 21044
<211> 407
<212> DNA

<213> Glycine max

<400> 21044

agcttatgga aataatacat aagaaagata actaagagtc ggccagggga tcaaagcaac 60
gcctgatgaa gctcatatca ttttcaagcc tagtgataca agtatccatc ccataaaagc 120
gagtatccat cgcatacaaaa tgctcaccca caaatgctcg aagatcgtgg agctctgtga 180
ggatttcagt cagcagagaa gaagcattcc tttatgggtgg aggagatggg gtacgttcgt 240
taggaatagg cggtgacaag tcttgtttgc aaatccactg accatcaaca tcctttcggt 300
aaccaaagga ggtaacaaca ccgacaccaa tggagaaaga ccttttaacc ttgacatatg 360
gttaatcatc caaaggaaca ttgaaatgat gaagaacaag agtaaca 407

<210> 21045

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21045

tccgtgaaca tcaactcttc tgactncatt ttgtaaataag tttaggctat ctaccacttt 60
cgagtatcga attaatagta tttattatct gttaaataga atgggtttttc aattccctgt 120
gctcaagtac ggggtataatt tgggggacta attccccctc ccattcaaca aaaaaaaaaa 180
gtgcgagtaa agaaataatg cgctatatgc atccccattc accagagaaa aaaagggtac 240
aagaatgtca ttaataatac gctatagtct tgatgcaaag catcatanat ngagagtata 300
tttgagtga cgtcttgcaa ctttatngaa tgtgtaatga cgtgacttta tgtagaaaat 360
tatcttaaga cttanatctg tttctttttt ttgtaatgta naaaaaaatc aacaatga 418

<210> 21046

<211> 576

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21046

actgtctaac acttaaccaa ntanacactg atcatngaag cgttaagaga gatagagaag 60
gtnnnnnnnn nnnnnaagag gatgaacgtg tggatacgct agctattacg cgcacctatn 120

naanacccca ngngngganca caacnataac ntgctcgatg agggccggct ctattctact 180
 cgcattgagag agaggggagca cagcaggctg aaaagcagaa ccatcttcct tgaaagggac 240
 taaaggtggc tccccagta atacaaggca gtccaaccac atgaccaaag aaccaaccca 300
 gacgatgaac aatcgataca catgacagaa gatgcaacac atggacaagt gagctcacc 360
 acgttgacca tgcgcgctgt gagagacata gccaattcaa taggaatctg acgaccaaga 420
 tacaacaaca tgaatccaac gctgatacta caaaaactgg aaaaggggtgc ccgaaacgac 480
 aggacaaagc cgcgagaaca tgaaactgga gacagaaaaa cacacaaacg tcgggtctta 540
 taacatgcag caagagagca caggagagat acggag 576

<210> 21047
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 21047
 agcttgtttc tagcctggag aggaggggtgc attagttttc cagccaccat gattgtgtcc 60
 gaactgagtt ctttaaaggt tgggctaaga atttatcctt gaaagaatgt agttctttct 120
 actttggtat gagttatgct ccacatagaa acgcccattt tctttactct ggcttttgta 180
 ctggcattgt taggattcaa tgcaagtatt atttctcat tctctcaatg agaggttgtc 240
 aaatttaatg ggtcggctga tctagaatca attc 274

<210> 21048
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21048

actcaagctt atctgctcat acattgcctc ttcttttgaa aaacattnct ctacgagaat 60
 ctcatccact atcatctaga gcttggtttc tgaatgacaa gtgataaatg acagtcgaag 120
 caactttata aagcatgatt tgaatagaaa agtataaatg tataactaata tataatatta 180
 ttatagcgca ttaatatatc taacttataa ccatttattt atctctttta taatatactc 240
 tcttctattt tcattttctaa cattaatttt aataaatcgt tctagaaaat gggttaatatt 300
 taattatcgt tatatcatat ttaaattggt catcttcaat tcagaatata atgtatgaat 360

ttagaaatat ttagttaatta taataaagat ttaattatat aaaaacaaat atcgctctga 420
 agaagcttaa ttgcaccta taccctatt 449

<210> 21049
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21049

agctttgctc cacaaaagtg atggtaattt ctctcttctt ttcaatttca attgtatgat 60
 tatgggtctt tgggtttatg tgtaaggctt taattggaag acaagtattt gaaattgtga 120
 gatgttggtg tttcttgctt aattgacttg ctctgcgaga cgttgttggtg tggattttaa 180
 tcaaattact gtgagtttgt gctttctttt gtgctctcan gtagtttga gtaaggcaca 240
 tgtgtgtgtg tctatatata tatatattaa tacttgctcg ggaatgtaat aacagggtcat 300
 aatcatagat gttgcaattc atactatgat attaaataaa tagacatata aaaccagggg 360
 ctaagggtgt ttctttctca aagaagcttc agatttggtg aaagtta 407

<210> 21050
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21050

tgacccttac gagtcagttt agtcaaagt ttagctaact atgagaaacc ttctatgaat 60
 ctcanagtat atcctgctaa gcccaaaaat ctctaattct caaaaataga tttaggactc 120
 tccattcaa gaacgacttc tatcttagag gtagctacaa ctatacccc ttgagatata 180
 acatacccta ggaaactaac tttctctaac caaaactcac actntgacaa gttagcataa 240
 agttgtcggc cctaagggt atgtagcaca atcctgaagt gttcttcatg ttctctctta 300
 gtcttgaggat ataccaaaat atcatctatg aatactacca caaaactatc tangtaaggg 360
 tgaaagactn tattcatgaa gtatataaac acacctggag cattagccac accaaaaggc 420
 atgactagat actcatagt 439

<210> 21051
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21051

agctnttatc tgcagacata tcctgatgaa gcaatggaat cttatctgat tcttctgccc 60
 ttgcttcctt tctgagggtg agattgaagc ttggtgactt ttgcatctga caagagatgg 120
 aattgtcggg gtttgattca gtactgagcc ttgttacact gtcccttggt tcataaccac 180
 catttgcaaa tatagaatag attgaagatg gttcaatgga catggtagct gctgaagggtg 240
 ttaattctgc cctgcagat gaagctgctt ttacatgttg tagatgttct tctcgtttct 300
 canatgcttc atcatcaacc aagtccacag atggaactgt taacttataa gaaacatgga 360
 tgtcaatggc aaagtatttg gtctcatttg ctagcttcca atctgag 407

<210> 21052
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21052

ntaagcatat atcaatccta tatatcctat ctctntaaat cttaacctaa cttataatat 60
 aaatggcctc cataaaacat atagctggaa aacaactcaa ggatgtaatg ttagagtggg 120
 gagtatttcc aaagagataa cttaagatga tggctggaat gaccattagc ctgtaaaaaa 180
 tttattggca ggcaatcatg tatagcaagg ttaaaccaaa cagttagtcc ttgtagtcta 240
 ctagatttgt attttgggcc ctatagtta ttggctttgt atgagggaga gccttggaac 300
 aatggtaaag ttactgcttt gtggcctaga ggtcacaggt ttaaatccag gaaacagcct 360
 ctccagtttc cacttggtgg tgtaaagctg tgcacatcta ccttcccan acctcactta 420
 gtgggagccc catgtacttg gtc 443

<210> 21053
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 21053

agtttgtttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
cgtcgaagaa cgggttgaaac ctttgcgaga ttcttcacgg aaaacggttac ggaaacgttt 120
cggaagcgcc tcggcttaga ttttcttcac ggaaacaatt ttcccaagca aattcgaaag 180
agagagaagt gcctaagggg ctggaccctt tcttcttca tttctctccc tatttatagc 240
agaatagggg aggtggttgc cgccagctc gccagggcga gctcagctcg ccagggcgag 300
catggttgct tctccagaa gcaaccgctt tctggaggaa gcttctggag ggcccaagtg 360
ggcctgggtg ctatntgcac ccacattttt actaagtaca ccc 403

<210> 21054

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21054

tataagaaca aaattgcctc aatcatttct taatatgcat gtgaattang acgcatcagc 60
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaacacac caaatgatta 120
tgatgatgga tggctcanat ttcacaaag gtaaatcat cactttcaaa ttgagctttc 180
aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
tttattttca aaacaattac ccatttcttg aacatttctt ataattcana gaaaaacatg 300
caaagtcgta cgtgcacaca atattgacct aaaatattaa actaaaaatc tgacgaaact 360
aacaacatta acaaattaac acaactaaca aattaacaaa accaacataa ctagcataac 420
caaagaacac tccccncccc ccatacttaa acaaca 456

<210> 21055

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21055

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tcccactcca cgtaggctc cggtatcattc ttctctttaa atggaggaat gttgagttta 120

66340500

ataccatcaa ttccgttntg tctaggaaca ccatcattcc ctcttctctt cctttcttct 180
tcattatgat ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240
ttcattaacc tctccaaatg ttgcatcana gcttgcatth ggaattgcga aagccccact 300
ccatcattag gattagtacc tgacatctca nacaacata tcanacgtaa caagacaatt 360
atagttgctg ttcgatacct caccactcaa gtgtatacac 400

<210> 21056
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21056

tctggtggga catcttgact tgctttccaa tctgacattc ttcacagatt ctgccttctt 60
ctattttcag attgggaatg cctctaacag cacctttgtc aataattttc ttcattgctc 120
ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggagaata 180
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
tgctgcctt cattaggact tcaactcttct catttgtaac caagcattct gactttgtga 300
agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360
ccttcaccag cagtactttg ttcagactan gaagtcacac atggactagc tttcccatc 420
cagtgatc 428

<210> 21057
<211> 399
<212> DNA
<213> Glycine max

<400> 21057

agcttcttgc gtagccgctc ttggtgctca gaaaatccca aaaacaaatc cctcttatta 60
ctagctatth tgaattcttt agttcctgaa tgtacaacct tcaaattgtt gctcgttctc 120
ctctttcttt tctgcaaaaa agaaaatcaa tatcaaagaa aacatggatg aaatcctaag 180
aaaatcaata tcaaagaaaa catggatgaa atcacaatta aaaagcacia ctaccaatct 240
ttcagagtcc tttggttaat ttgtcttgct tccttatgtg gtggggtttt gtttaataat 300
attatacttt tgctttccaa aaaaaactta tgactgatcc tcttttcatt aatcctatct 360

tgtatgttat tgtataaaag atcatgggtt ctccacctt

399

<210> 21058
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21058

tgtatttcag tatcttattg atcagttatg ccaaatgcct gtattggcct tacctgattn 60
tacaaagact tttctagtg aggtggatgc ttcaggagtg ggggtcggag ctgttctcat 120
acaagatcac cattccatag cctttataag tagaagctta aatgttcagc aacaatccat 180
gtcaacctat aagaaagagt tactagctgt ggtgtttgtt gtacaaaagt agagacatta 240
cttattacct aagcagtttg taatcaaaac tgatcacaaa agtctcaagt atattcttga 300
ccagagactt tccacagctt tccaacaaaa atggttggtg aaacttatgg aatttgattt 360
cattattgaa tacaagtagg gaagtgagaa ccaagctgct gatgca 406

<210> 21059
<211> 401
<212> DNA
<213> Glycine max
<400> 21059

agcttctatt ttactgtctc cgtgtgaggg acgtttctct ttctgtggac attatttcac 60
aaatttcaat ggtggagatg tgcaaaaatg ggttccaaag gtggtatcga aatttcacga 120
caatccaaca gttgacgagt ctgaaatcgt agttttacga agacagggtt tgggtctctg 180
tggaanaaga gaaagctacg atacgaatga catttctctc acctcagata atatttcgca 240
aattccaaca atgagaatgt tcgaaaatga gttctgaaag gtgctcaaatt tcatgatga 300
tccaacggtt aacgagttcg ggatcgttat ttactgaga caggtttgag tgtatgtggg 360
aaaaagagag gatttaagag aagaagaagg aaaacaaatt g 401

<210> 21060
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21060

tctagctccc aacaaaagggt gtttagtctc tcataaccat gagaggcttt acttgtcatg 60
gatgactaac aacaagaaaa aaggagaatg tcgaaagcga gagggtttct cctaagggat 120
agaccccggtg tgtgggttgt gagacggtgt gtattttcct tctgttttct ctctcctcct 180
tatataggta gcttacttac ttcgcactta gtgcaggcat tcacgctaaa cgcgcctttg 240
ggcttttttcg tgggccttat gcgtgcttag catgtaacgc gctaagcctg gagtgtaggt 300
taagcctaga gtgagtgcta agcctccaac gtgcacttag ccaaaattga cacttgaaat 360
aaagatgtca atttttcctt tcagaatttt ttcttccaga ttntacatca aactttctca 420
tttgtntaa ttaattcaat ttaagggtat ggcagtat 458

<210> 21061
<211> 416
<212> DNA
<213> Glycine max

<400> 21061
agcttattta tatcgaggcg ctcgaaattg aacaacggaa gctcttgaga aattcaaattg 60
gtcataactt ttaactcgga tgtccaattc atgcgcatca catatagaga cgctgaaaaa 120
tgaacaacgg aagctctcca gaagttaaaa tggtcataag ttttcacact gatgtccgat 180
tcaggcttat attatatcga gacgctcaaa atttaacatc gaaagctctc gagaaattca 240
aatggtcata acttttcact cggatgtccg attgcagcgc attacatata cagactctcg 300
aaaatgaaca acggaagctc ccgagaaact caaatggtca taacttttta cactgatgtc 360
cgattcaggc ctataatata tcgagagcgc tcaaatataa caacggaagc tcttga 416

<210> 21062
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21062

agcttatgcg catatttccc tacgaacggt cacttgcaca agacatccta ttaactttga 60
aaaatgcacc catatacaat caaggtagct tcattaccta gattatttac atgtacttcc 120

aaggtgtatt tgttatttac atcacacacg cctccttggc taaatttaca tacatgcata 180
 ctcaaagcat ttcggggtac caaaaattgc acatgcgctc atcttgggtat ttctaatacc 240
 tatacatata aaaacttcat gatgaatctt gactacctac gcaataaggt gctacatttc 300
 atgctttttt ttttcaagtt tttgctacct aaagccacat gaaaattcaa gcatattttc 360
 ctttgctgac taaaattgta ttcaaattag aaggatatata tttttttgta atatgttttc 420
 ttcacataac atgcaacaca tttatatata tnttttgtga gacat 465

<210> 21063
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21063

agcttgtatg attatggggt acccatcata tgtggtacta ggtggcgatc aggcgatggt 60
 gcaagtcgac tttccacatc caaaaatcac acataaatcc accatcccca gttgcccacc 120
 ttcaattgag ctcaagtact cccatgtagc ccttatactc gttcctctca acaccggggtc 180
 cccatcaatc cctccaagct tccacaacat ccaaacatca tgaactatca aaaccaagca 240
 aaaacagggc agaggtagaa atctctgccc aaaacataaa ccaataccac agtttttctt 300
 actcaaatac cccagtaaca ttcccttcgt tccaattcgt tcaccgttgg atcgactcga 360
 aaattttact ggaggtccct agtacataag tctacattnt gaccgctggg atctg 415

<210> 21064
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21064

ntgaaganat aggatacgaa tcttacatgc atccattcac actttctata aaaagcatta 60
 tgtatattct tggaaagttg gaaacactct caaaacacct tgtatatgct aagagaaaag 120
 actaagagct tagctttcat atttgtttgt aagacaatta agagttagtc agtgagaaaa 180
 caaacttcaa atcttttgat ttatttttag ctagcagtga cttggcagga caaagaatat 240
 tgggtttgtt caagcttggt aaaaatggaa gaaaagaaaa ccttcacgga tttgctcacg 300

gaaatgtcga anaacttacc cgttgaagaa cgaagaacga acgaagaacg aatgaagaac 360
 ggtgaagaac gacgaanaac attcacggat ttgctcacgg aaatgtctcg gaagcgttat 420
 ggaagcacct cggcttggga tttcttcacg gaaacaattt 460

<210> 21065
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21065

agcttgaagg catgtaaccc accatcttgt catagtagaa cactagtaat gtgtccacta 60
 tcattgttat catttccttc tccatcggtg ggggtgctac ttaagctgcc agatccctcc 120
 acctttggac gtattctttg aaagattcat gtcctctttt gcacatgttc tactactcca 180
 ttctatccgg agccatatca gaattgtact aatactgcct aatgaaggca accattaggt 240
 ctttccaaga acggacctga gaaggttcca tattattata ccaggggatg gctacccag 300
 taagactttc ctggaagaaa tgcatacaaa atttttcgtc tttcgcgatg gccccattt 360
 tcctacagta catgttcagg tgattcttgn ggtaagtagt tcccttgtag tta 413

<210> 21066
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21066

tccatcagtt ntgatgatgc caaagctcan agagttgttt tatgattaaa gaatcaagca 60
 ttcaagattc cactcaaaga ttcaagaatc aaataaagaa atcaagaagc atcaagccaa 120
 gtcaaaatag gtagtaaaaa gtattttttc aaaaaacatc aaatagcaca ctttttgttt 180
 gaaaagtgat tttctgaaat cttctaagtt accagagttt ttactctctg gtaatcgatt 240
 accattttat agtaatcgat taccagtaac caggatgggt ttcaaactgg tttcaatgct 300
 ttgtaacggt ccaaaatgat tttcaaatag tgtaattgat tacactatat taataatcga 360
 ttacaagtga atctgaacgt tggaattcaa atccaattgt gaagagtcac agctnttcat 420
 aaaatacatt gtgtaatcga ttacactatt atggtaatc 459

<210> 21067
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 21067

agcttctggt gggacatctt gactagcttt ccaatctgac attcaccaca aattctgcct 60
 tcttctatatt tcagataggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tttcttggag 180
 gatagacatg tggaggagta actggtttct tgagggtgcc ataggtagca gatgtgcttt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgcagtc 360
 agtcccttca ccagcagtac tttgttcaga ctaggaagtc catcatgagc tagct 415

<210> 21068
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 21068

tgtaaagaa cttaaaaaaa atcaagaaca agcttggttcg ctcatgttc gcgtgtatga 60
 cattcactcc acaaggtttg aagtagagga gaccttcaat cctattacgc aacgtggcgg 120
 aaaaaatgg gcagttaact tgaatgggtca ttattgtcaa tgcggaaggt attctgcgct 180
 tcactatcca tgttcacata ttattgcagc ttgtggttac gtgagcctga actactacca 240
 atatatagat gttgtttata caaatgagca catcttaaaa gcttactccc cacaatgggtg 300
 gcctcttgag aatgaagcgg ctattcctcc ttctaagac gcattggacac ttatccctga 360
 cccaactaca attcgtgcg 379

<210> 21069
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 21069

atcttatctg ataaatgtat ttgtatgcat aattaatttc atgcaatata tttatgacta 60

tatattctaa aatataaatt gcattggttaa tatattaaaa tgtagaatgt ttgtttttaca 120
 tgtcatggaa attattttata actaaattta tactaaattt ttcggcaagt ttttctgaat 180
 gcatatatac taacattgtc aatcaaaaat taatctttca tcttggttaa aagtgttaata 240
 ttaaaaatat atttatagct aaaaaataac tttgaaagtt tgttggtgtc ttacaaacaa 300
 tgctcaaaag aaataaaaac gagagaatga aaataaaatc gaaaatagtg aagggggaat 360
 attcatttga tctggaaaat attactacta ctatta 396

<210> 21070
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21070

tgatagtgtg tttgatttgt ggtgtggtga aagagaaata attatntttt cacgttaaaa 60
 aacacaactc tttgtagctt caagattttt aggggtgaaaa tttgattatt tttttttcag 120
 tgttacgggtg aaatgtacta aatagttttg taaatagtaa atacacatca acatcacgtg 180
 gctgatcacg tgacctctct gaatttctctg tccctctttc ctgtttttca tcaaattcca 240
 aggctaagac agtacaaaat gtagcagtta cagcacgtga tcccaaaggc atcaaattcca 300
 aattttcaga tattttaccat ttcactttca gattgtacta aaaagaaaga ataaataaat 360
 gctgatttca cttgaccctc attggcttga aggctcttaa gtaatgccac gggcactaca 420
 cagaatcctt caccacaaca atg 443

<210> 21071
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 21071

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca tacaacacaa 240
 gctatcacag ccaagcaaaa cagagcagag gcagaaaact ctgctcaaca catcaaccaa 300

aatcacagct tttctcacgt aaagaccaca gtaacaattc cttcgatcca attcggttaac 360
cgttggatcg actccaaaat tttactggaa gtctatagtg cataagctta catt 414

<210> 21072
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21072

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agcccaagag aatgatttca agattgagtt aacaagtttc aagaatcaag agaagtttga 120
tttcaagaag aaaagatgaa ttcaagattc aagtgaagaa atcaagaaga cttcacaagg 180
ggagtattga caagatTTTT caaaaaaca acatagcaca gttttgtttt tcaaaagatt 240
ttttctcaaa attttctaag ttaccagagt ttttactctt tggtaatcaa ttaccagttt 300
cttgtaatcg attactagtg gcaaagtttg atttcaaaag cttttaactg aatttgcaac 360
gttccaattg ttttttaaatt ggtgtaatca attacaatat attggtaatc gattaccagt 420
gtatctgaac gttgaaattc 440

<210> 21073
<211> 404
<212> DNA
<213> Glycine max

<400> 21073

agcttcattc atgtatccac gtagtagtcg tgcaggtacg gtggcgtctt cctgggtgcgt 60
actggcctcg aggtggttac tggtatcgac ggtgaagacg gtgcctgtga ggtgccggtg 120
gtgctgtcgg tggtgctaac agtttggaat ttcaacagtg ttgccggaac aaattccgca 180
gctttactcg cagatgggag tatatgttag aggaggaaag atgcacaaat ggaaaattct 240
gttttggtac gtgacgttat agtgcatttg gaatctgagg aacaaaattg cttttagaga 300
tgctgatgta gagataggtc atcttttaca ccgcatgata tctatatctt gacaatgcgt 360
tttgatatagg aatgggtcta aaccatgata ttctctctct gatt 404

<210> 21074

<211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21074

tctatagaag gttcgttcct aatttctctt tctttggatc ttctctcaat gagctgggta 60
 agaagaatgt ggcatttacc tggggtgaaa aacaagagca agcctttgct tttctcaaag 120
 aaaagcttac taaggcacct gttctagctt ttctgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ttgtattggt acaaggtggg caccctattg 240
 cttatttttag tgaaaaactt catagtgcc aaccttaacta cccacctat gataaagagc 300
 tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaattng 360
 tcattcatag tgatcatcaa tcaacttaagt acattagagg gcaaagcaag ttaaacaaga 420
 agcatgcaaa atgg 434

<210> 21075
 <211> 380
 <212> DNA
 <213> Glycine max
 <400> 21075

agcttattca tgtccatggt gaactgatga tgatgatcct ctaaccattg tctccattg 60
 ctctcaaagg taccctaaaa aatctcatgt aattctctaa tgtatggggt gcggatttgt 120
 taagcattta agattctgcc atttagaaaa agtaatcata tgtgggtgcct gttctattga 180
 tattttattt ccataccata atacattaag acttgcggtg tctagtgcc taagatgcta 240
 tgtatacatc ttttcaattc cttttccaat ttgtgttata ttgtgagatt cgagtactta 300
 atgggtgattc tgaatattca gctttaactt catagcaaaa ttatcatctg cgtctttcta 360
 caaccgtctt acaatcctaa 380

<210> 21076
 <211> 300
 <212> DNA
 <213> Glycine max
 <400> 21076

tcaaacttgc aacaaaggag ttgagcatgt ataaagattc tttcttcaac ttttagaggt 60

gactttgagc gtctgtttat ggaggagtcc caatcaattt ctgattattt ttctcgagta 120
 ttggcccgtat tcaattaact taaaagaaat ggtgaagacg tttatgaagt gaaggatcatg 180
 gaaaaaatac ttccaacttt acatccaagt tttgacttca ttgttaccaa cattgatgaa 240
 aacaaggatg taaagaccat gactatcgag caacttatgg gttccttaca agcatacgaa 300

<210> 21077
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 21077

agcttttcat ataactttac ctctgctgta ggctacttat ttgggggaaa aaatgataaa 60
 tttgaagttt tgtatgtggt tgtgtatgga atttgtaatt tgggaatttg tagtctttta 120
 ttgtgtgttt ggtttttagta ggattttcta gggatcatgtt caataccaat taatttttca 180
 catgttttagt tccatgttga gaaattgatt gagcccagaa ttgatgagtt taagcaactg 240
 taggtagttt tttttgcgtt ggttcaagaa ttttatattg agttttacta ctaatatctt 300
 ttataataaa aacatccaaa cataacttca aaatcatttt tccaacgctc atccaaaatt 360
 cctaattttc ttactgactc ttaaggaatg agaatgaagt ttatgatgat t 411

<210> 21078
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21078

tcaagaaaaa gatggcctca gcaaactcct tatttccaga ttggaattct atcaatagac 60
 ctccaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatatac tgggaagcca tagaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagtcat caagtgaag cataaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgccta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420

<210> 21079
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 21079

agcttcattg cctaacaagc caacttaca cagctagccc caagagactc agcataagga 60
 tgcacagacc aaagttgcgt atgtaaaaa attgtatgac caagtgaagg tgcaaattgc 120
 aaagaagaat gaaagctatg ccaagcaagc ccaaagaaa aggaaggaag tggacttga 180
 acccggtgat gatcttggac atttgaagac aaatgttttc caagaaggag ggaatgatga 240
 gaatcatgaa acaggccaaa tacagtctaa aggcccaagt ggagaacgac gaacgcccaa 300
 gtggagaatg acaaagcccc cgagtggaga atgatgaatg cccacgtgga gaatgatg 358

<210> 21080
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21080

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 caggtcaaag ttgagtatga gaaaagattg tatgaccaag tgaagggtgca aattgcaaag 120
 aagaatgana gctatgccaa gcaagccaac aagaaaagga aggaagtggg acttgaaccc 180
 ggtgatgatc ctggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240
 catgaaactg gccaaatata ggctaaaggc ccaagtggag aaggacgaag gcctgagtgg 300
 agaaggacaa agaccctgag tggagaagga tgatagccca agtggagaag gatgaaggct 360
 caagtgtaga tggatg 376

<210> 21081
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21081

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 ttttcgtccc ccaatttgag ccagtcaagt ttgatctct gttgtagaat ttctcatca 120
 atctcgttcc acctaatac agtttttgta cacatatcca ctttatcaat tttctcttta 180
 ttcacctgt catttacaag cgagtcttga gcttcagcaa gatcttcccg agctttggcc 240
 agctggagtt tcgtatgagc aaattgtttt gacaaagtac ctaaaaattt tcttaattct 300
 ttcaatttct tccacatcgc taccatagga ctacatcaa cagggtatt ccaactctat 360
 gcgacagcgt catcaaaacc tggcagcttg gtcacacaat tgagaa 406

<210> 21082
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21082

tgtccaatgt actcttgtgc atgacatcaa gcgacgagcc tttgtcgata agcattntgg 60
 ccacgatgtg gtccaaacac ttgacggata catgtaaggc cctattatgt ccccgaccct 120
 cgacgggtat ctctcattg gcgaacgtga ggtaattgtt ggacgtgata atgttgatga 180
 ttctccaaa gccttcaca aagatgtctt gggctacatg ggcttcattc aagattttga 240
 ccaaaagcgc ccgatgaggc tcagaattca tgggtagttc caacagggag accctagttg 300
 gggttttatt gagctgttca attaccttga actcgctntg ctggatgac cgaaagaact 360
 catttgcttc ttcaacggat attntctttt tgttgaagtc ttctctccc tttgcaaacc 420
 tcccagtcgg gatc 434

<210> 21083
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21083

agcttatgtt aatttggcat ggaaggtaca aggctggcgg cttaaggttc aagcaaccca 60
 agtaagggtt ttaggcccac aaaaaaaaaag gtccaaattt ttttagtac taatatact 120
 caaaaaaat ttattgtaaa attatatttg aaataaatt ttaattaaaa tattataagt 180

atctgttact ctttttattg atacgcaagt aacaattaat gagcaacaac ttttcatcaa 240
tatcatagtt ttgttcaaaa aaaagaaatt taacagttaa tagttaaaga aatccaaaag 300
ttttttcttc atttctattc tctttattgg ctttctattc aattntaatt catttttctt 360
ttctcaatgt ctttcatact tctttgtctt cacatgttga cctccttaat tatat 415

<210> 21084
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21084

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tatatatgga ttagttataa cataagtttg taagttctcg ctaacacttt cacaaaaact 120
taacatatga tcttagtcat aaaatattgt taactcattg acaagtgtac cgatttgtct 180
caagtagtaa agtactcaga agtctgagta tcgaatccac aatgactttg tttgtactta 240
gattgatgca aactcaattt acaagtaaga gataaagaat ttaaaataaa agataaagaa 300
agatagaaga taagatacat atttaaaaga aaagataaga gatttaaaga taaaaaatta 360
gaagatagaa nagataaaaa aatttaaatt aaaagatgat aaagataaaa aagtataaga 420
taaaatagat aagataagta aaagataaag ataatga 457

<210> 21085
<211> 369
<212> DNA
<213> Glycine max

<400> 21085

agcttatctt tatatttaaa aaacattgat agaataatac cagtacatta ttaatttgaa 60
taaagacgc atacatgaca ttgattgaca taatacatat tgtacgagga tctaaagaaa 120
ttgactaaag tggcgtaacg cagttgcagt cacaagtagt tgattatctt tatattcgaa 180
tgggcctgac cctgacatgc acgccacatg catcattagt tcataacatt tgtttgcaa 240
ctattaatca cagtattgtg gccaggacca tgcatagtca cacatcagca tatatctcat 300
cttcgtcaac ccagaactgg attcctcgac ttacctttta aaataatctg catcatcgat 360
ttatatattt 369

<210> 21086
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21086

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 taagtgtttt ctccaactcc taatgatcaa gaaagagacc ggaagagtag tcaaataagt 120
 aaaatcttat tttttttctc tttcaagaag ttaaaacgca ccagaaaaaa gtctcactat 180
 aaaaaaatat acatattggg tatctattat ttttgagaat cacatatttc aagatcttac 240
 taatttccta taattgttaa tcttcaaaac ccttaaaacc cttcaagaca tgtataagag 300
 gtgagtctct gcaccacatg aatcgtgtaa atctatgcc acatcaattt aaatataaat 360
 atttcaattg caatgcatgc cgaacagcaa tatcacctaa caaacacgtc tgatccacag 420
 ataaagatac tagggttgcc taattctcta catttcaatg acc 463

<210> 21087
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21087

agcttgccca gagaatgagt ccacggagga aatgcttacc acctcaaaag actggaaagc 60
 ggtttctaata gactcctctg cggttccac ataaggcata gaggatgggc agtcaccaa 120
 gatgtcttct tcgctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180
 gtggagtgtg gaggaacaa cccctactga gtggatccac gggcgcccca acagacagct 240
 gtaggggggg ttaatatcca ttatttgaa ggtgacttga caggtgtgag ggcctatctg 300
 tactgggaga tcgatctctc cctaacctc tcggcgggtg ccgtcgaagg cacgaaccac 360
 catagaactc ggctttaagt gggaagcatt gaatggtaat ttct 404

<210> 21088
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21088

cgattcaatc tatgtaccgc tagtggtcca cattgtgttt cgtgcatttt tattctcggt 60
 ttgtttactt tntatacccc ctcttgacgt gcttgagcca ttttacttaa gtcatttctc 120
 gcttaactta aaaataaaat aaatttccac cgaacttttg aattgtatta tccattaact 180
 tcgggttaaaa taaattccga ccgttcggtc gtgccgtaac cacgttggaa atcaaaaaga 240
 ggtaaaaaat aatataataa tcaaaaagac atctttagta aaataaagcg aaaaatcaat 300
 cgggcgttnt ctctttggga tttctcattc ttaatcgaat tgattaataa ctaaagtga 360
 actaaaggct aaaatcaatt cgcctagtca agctcgtcca taaaaatagg gctttgaagt 420
 ttgtcatttc attntctcac taagtaaaat ggat 454

<210> 21089
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 21089
 agctttgcct ttatggcttg tacctcatca ctttcttccg aagctttaac ctcatcgctc 60
 ctcacagtct ttagatttgg gagccaatcc agtccttggtg ttcggactct cagccactta 120
 tgatagccgc cgatgatccc attactgctt cccctaagct ctctgtcctt tcttcacgct 180
 gcatcccatg ccttgcgaaac tccttggagt accctcgcgt tgtgggtcact gaaacctcgt 240
 gcgatgaaag gcgtgatgct ttcgtctaataa ggcgctcctc tcatggggta gccaaagtgt 300
 cttatggtga gaacgggatt ataattaata caacccttg tcccatcaa gggaacattt 360
 ggacatcctt cgcatagaaga tagaatcttg attcttcctt ccttctagcg aggg 414

<210> 21090
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21090

actcaagctt catgattgaa tcaagattga ttcattgatga tgaatcaaga ttgattcaag 60
 gttttntgat gataacaaag atgatgacaa aaagcccaag agaattgactt ccagattgag 120

THE

<400> 21091

<210>	21092
<211>	366
<212>	DNA
<213>	Glycine max

tactcaagct	tatgccacgg	aaatgtaatt	atganatcga	gatgcccgct	tttcaccatn	60
ctctagttaa	ccatgcatgt	aagtaccatg	ttcaattatt	ttgttttgtt	gctgtgaaac	120
gggtttatga	tcccaacatg	gttggtcat	ggtagcgaat	atatgcaacc	aagaatgcat	180
catgaatttt	catgcttccc	ttttttttgt	tttcgttttg	tagaggaaaa	tgcagtgttt	240
atgcatgaga	aaacatgaat	acaaaacgta	tgcagtttgt	agaacaacaa	gtatgttgaa	300
cgcataatgca	tgatgatgct	atgactcatg	caaaatgcga	ggcttgaata	tgataacgga	360

caaatg

366

<210> 21093
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21093

ttcaaccaat gagattgttc gaggcctgat ctttctccta atcatgattg ctacacccgg 60
aaccaatctc gaaacaaagc ttaacctttg aacgccaggc gaagcaacct tgatcgaaag 120
acaaatatga aacgtcctcg aatgactgag aaccgacccc gcgtgtatcg tccccagtag 180
cataagtcta aaacacttga cacgcacagt tagaaaaaca ccaacacaaa tgtcacaact 240
ttacgaactt gctcgcgttg aaaaccctta caaccaagag atcctaatat taacctatca 300
ggccccaacc ccttngattc aacacaacat gccattgaag cacgaattga acaataata 360
gtgaataacc actggtatta tctagcactc cttacaaaca tgcg 404

<210> 21094
<211> 424
<212> DNA
<213> Glycine max

<400> 21094

tggaatgatca aatagtctga ccattggtgt tttaccatta ttgtttacac tcaacattag 60
ttaatagtta gtctatattg cttagaatgg atccatccaa tatggcaaga ggtgtgtacg 120
gtgaaatgct ctgacatttc caaaatgaag acattggagt ctctctcata caaagcacat 180
tggttaaattt tcaaactcta aagtagatgt tctcgaccag aacatcttgg ggtatgcttt 240
caggagattt catcatacat agcacacatc tctcatctat tgcccttaaa gctaaagaat 300
caccagatga ttttaataat gaaagtgggtg aaattgatga actttccatc ataaccagaa 360
gcttacacaa gatgttaggc aaaaggghaaa tctactacacc agtaatgcat tcaagtatcg 420
cact 424

<210> 21095
<211> 392
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21095

agcttatagc cttttcaaac gacaataact ttttactcgg atgtctgatt gagactcgta 60
atataacgag atgctcgaag ttgaatgttt aagctttgag ccaattcaaa cgacaataac 120
tttttactcg gatggttgat tgagtcctgt catatatcga gacactcgaa attgaatgtt 180
gaagctctga gccaatfcaa acgacaataa ctttttactc ggatgtgtga ttgagtcccg 240
tcatatatcg agacgctcaa aattgaatgt tgaagctctg agccaattca tacgacaata 300
actntttact cggatgtctg attgagtccc gtaatataac gagacgctcg aaattgaatg 360
ttgaacctct gagcacattc aaacgataat at 392

<210> 21096

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21096

taaacattca acttcgagcg tctcgatata ttacgagtct cattcaaaca tttgagaaaa 60
aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120
atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180
cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240
caaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcggt 300
atatcacggg actcaatcag acatccgagt ataaagttat tgctgtttga atttcctcag 360
agcttcaaca ttcaatnttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420
t 421

<210> 21097

<211> 410

<212> DNA

<213> Glycine max

<400> 21097

atctttaaca tagaaaccta gttagattag tgctttgaca ggtttgataa caagaacata 60

tttgtggggtt tgacaagaac tatatacagc tcatgactat tctccaaccg agcaccactt 120
 ggaagggttc tacaccaat gagagtcgag gttgtgttga ttgccaagct tcaacataga 180
 aacctagtta gatttttggg ttactgtgtg gaaggagaag aaaaaatgct agtatatgaa 240
 tatatgccaa acaaaagctt ggatgctacc attatTTTTT gtaagactat ttattgcatt 300
 tgaaatattt tgtttacgtg ctttttttgg tacactcaaa attctatttt gaagtagact 360
 aatgtaatgt atcatgcccc taatgaacta caagactgaa agttgtgtgt 410

<210> 21098
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21098

tgtctcagcg tttatgcgag acggagacca tcatgctagc tatcatcgcc aagtaccaag 60
 aagagttagg tctagccacg gcccacgagc atagaattgc ggacgagtat gctcaagtat 120
 acgcggaaaa agaggctaga agaagagtga tcgactcttt acaccaagag gcaaccgtgt 180
 ggatggatcg gtttgccttt accttgaacg ggagtcaaga acttccccgc ttgttagcca 240
 aggccaaggc gatggcagac acctactcca cccccgaaga gattcatggg cttctcggct 300
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag ggaacttgta 360
 tgggtctctca gaccttgact agatacgact tcctttttga aataaaatga gttggtccca 420
 tgtnntctac tccaaaaact t 441

<210> 21099
 <211> 405
 <212> DNA
 <213> Glycine max
 <400> 21099

agctttattg tctaacaagc caacttacia cagcaagccc caagagactc agcataagga 60
 tgcacaggtc aaagttgagt atgtgacaag attgtatgac caagtgaagg tgcaaattgc 120
 aaagaagaat gaaagttata ctaagcaagc caacaagaaa aggaaggaag tgggtacttga 180
 acctggtgat aatcttggac atttgaggac aaatgttttc caagaaggag ggaatgatga 240
 gaatcatgaa actggccaaa tacaggctaa aggcccaagt ggagaatgac gaaagcctaa 300

gtggagaagg acaaagcccc cgagtggaga atgatgaagg cccaagtgga gaaggatgaa 360
tgcccagagg cagagacact atcaagacaa ttaattgttg ctaaa 405

<210> 21100
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21100

nttcgattca ttctatgtac ccgtggtggt ccacattgtg ttttgtgtat ttttattctc 60
gnttcattta ctttttatac ccccttttga cgtgcttaag ccattttatt tatgtcattt 120
ctcgtttaac ctaaaaataa aataaatttc caccgatcgt ttgaattgta ttatccgtta 180
acttcggtta aaatgaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
agaggtaaaa taataatata ataataaaaa aatgtctttt agtaaaataa agcggaaaat 300
caatcggacg ttttctcttt gggatttctc attcttaatt gaatggacta ataactaaag 360
tgaaattaag gctacaatca actcgcctag tcaagctcgt ccataaaaat aagtttttga 420
agtttatcat ttcaatntct cactaag 447

<210> 21101
<211> 412
<212> DNA
<213> Glycine max
<400> 21101

atctttgaaa tggaggattg gggaaatttt ctccatcgaa tccttaagga ggattctaag 60
gattccgctc cgattaaaat gttcctcttg gtgtgggggt ttggtggcaa gcaacggcag 120
ctcgtggcgg ccaccggttg tcatgggttg tggagaaaga ggtgttaggg tttgggtggt 180
gttttgaga ggaagagaga gtggaaatcg tgtttttcac actggagAAC aaatttataa 240
tctacagatc tcgcttagag agctcgtctc gctaagcgga agtccacttt tcgtgcttag 300
cacgacaatt cgagcttagt gcaactccct ctactaag tctcgttag ctggccaatt 360
ctcgtcagc gtaattccct ctcgggttg aattatactt agcgcgcccc tg 412

<210> 21102

<211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21102

tttgtttgga attcattntc aattacctct tagttctgaa cgcattgataa taatatgtac 60
 caaaagcata caaagcatga taatatgttg gacagagctc ttcataatatt tgcttggtgt 120
 aaattaatga aaagttggtg cgtttggtta agtggtttatt aactagattt gaaattattt 180
 gattntatat atganattga tttttatttan aaatgaaatt aaaataaagt gtcattgttta 240
 taaatattca ttntaaagta agtttatatt acaacttaat atgattcttt aacttanaat 300
 gaaaatttta tttagagaat aaaatatgga gttatagtca tggattaana gttaataatt 360
 taaattaatt catatattag agagtgtttt gaattgtatc aatattgggc agcggctgan 420
 aatgaaaaca 430

<210> 21103
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 21103

agcttggtgt gagaaagtat ggaagagtca gtcttcctat ttttgtttgc tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca tgagaccttg gggacgtcaa gtggggtgct 120
 attgccccaa accaagcttg accaatcccg acccaacccc ggcatagtca gtcagtgaga 180
 acctttgatg tacctaaaca tgcaagctcc tggcagtcaa ctaataaaag aacaaagtcc 240
 acaaagcaac gaggcttggtg tggcggctgg ccaactacga atcttgagtg gtatctggaa 300
 attggcctct ggtaatcgat taccaacggt gtgtaatcga 340

<210> 21104
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21104

tgagaaatat agtgaaagtt gaatcgaatt atagagtttt catacatgtc cttgaaaagt 60

tccttaaatt ttttttcaa ttaggcctg aacttctgtt tattnttaat taaatttgtc 120
 attgaccata gtcaacatat ttaacaagga cctaattaaa gaaaaaaaaa tataagttag 180
 ggactcaatt gatttttttt attaaaaact taattaaaaa ttatcaaata attcggggat 240
 gtgcaaacta atttaacttt tttttaactc aaagatgcct atatcatttc atcgaagata 300
 ataaaatcaa tacatgaagg gactacatta aaaatacaat aactaacatg aaattaaata 360
 ctttaataag tgaacgagcg acttaatttg tttgtctcta aatgaaaaaa ctntaagctt 420
 tgaacttgca at 432

<210> 21105
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 21105

agcttttact ctctatgtct ccattatcca gcaatatctt ggctctttta tttggacatt 60
 gagaagcaat atgtccaact ccttggcacc tgaaacattt gatcatgag gatctagaag 120
 atgaattaat ttccatttta cctttagggtg tagcaaata atttttggac ttagcttcat 180
 ctttttgact ttgtcacaga tttgttggtt tgccaatttg acttcacaa agaagtggaa 240
 gcaaatttgg aagtactatt agctttgcat tgcttttcca cttgaataga tttgtgcaac 300
 aagtcttcca tctccacata atgtacaat tctaccatat tagctatctc tttctttata 360
 cctccaatga atctggccat agttgcctca cagtcttctt ca 402

<210> 21106
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21106

ntanacttga tattggatag tttacaatct gcattcagat ttaaaagtcg tagacaatca 60
 acttccgaag aagaagagga ggaggagtat tcatgtgcaa gaagacatgg aagaaggcaa 120
 agaggtgaac caagaagaga taatcatttt gggagcatta agatggcaac ccctatgttt 180
 caaggtaaaa attatcctaa gttgtatttg gagtgggata gaaagtttga acatgtgttt 240
 cattgccata attatttttg aggaaaaaaa tgttaagcta gttgttgaat tcaccaatta 300

tgctagtatt tgggtgggatc accttatgac tagtaggtgc tcatcatagc ctccatcatt 360
atggccattn tctctttcat ggccttcac attatggcca tttctcttt catggtcttc 420
atcattatg 429

<210> 21107
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21107

agctnttgat gtcatatatg aaaataggct cttcgccgaa atttccggtt gttatgaacg 60
ccgataatgc aaatgggggtt atatatacca aaaatatata gtgcaagaat aaaagttagg 120
tgcacatttt cagtatttaa agtggcttta taattgatgg gtaatcaaaa ttaaaatttt 180
accctatat tcaacgtcaa ttctaaatg ttgattatac gaattgttta agatgaaact 240
ctgattttta taagaaaaaa tattaataat acttaagaaa ctccgtcaaa gtgtttgcc 300
tagtgcaatt agcatagaaa taatatatca aggtccaaa ctctttttgg nggcaaatcc 360
cttctgctgt tggtagatag caaccattgt caatgtgatt ttgaa 405

<210> 21108
<211> 443
<212> DNA
<213> Glycine max

<400> 21108

ataagttagt tataccatag tctaaatatt aatatcaatt tatggaaaac taatgatcaa 60
tgttacatgc acaggtataa taaattataa attatgaata tattgaaata ttaatcatcg 120
tgtatgaaat atttactcta atacttatta acatttcttt tcttggaagc tgcgaagcca 180
ctaagtattt aattttttta taggaattca cttttttaat ttccataata aaaaatgatt 240
ttaaataaac aagtcatttg tcaaaaatgt tattataagg aaaaatttac tagaaataat 300
caatcaaat tactcatcaa tagatacttc attaaattac ttaaaatata acattatagt 360
gatcataaat taaaaggata taaagcataa atcaactact aaccaaatcc tagaaacact 420
gcatgtcca gatacaaaat gat 443

<210> 21109
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21109

agctttaagc aaaatcaatc aacaataaca ttttactctc ctgtccgatt gtctcccgtt 60
 gtatatcgag acgttcgata ttcagaatag aagctctgag caaaatctaa tgacaataac 120
 ttttttctcg gatgtccgat tgtatcccgat agtgtattga gacactcgaa attcagaata 180
 gaagctctga gcaaaatcaa atgacaataa ctttttactc agatgtccga atgaatcccg 240
 taatatatcg agacgctoga aattcagaat tgaagctctg agcaaaatct aacgacaata 300
 actttntact cagatgtccg attgtgtccc gtagtatatc gagacgcacg aaattcagaa 360
 cagaagctct gagcaaaatg aaatgacaat aactttttac tcggatgt 408

<210> 21110
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21110

cgaattcaga tcgaattgaa gttagcttag ctgaaccttg gccagcttat cggaatgatt 60
 cagcctcaga tgcaagggtt gggcgctaag tgcttgagac tcatggctta gcgcatgaac 120
 agagatgcgc ttagccgcag gcttgcgttt agcgaaagga ctgttttttt tttttcagaa 180
 aagtgttttc taagttattt ttcagtcctt tttccaagaa attgaaaccc ttgtgttaaa 240
 cattcaaaga taagctgata tactcctatg tacaaattat acagcaagtt ccacatgata 300
 taatgcatga aaaaacagag ataacaaaaa ttaaaactgg gttgcctccc aagaaacgct 360
 tctttaatgt catgagctng atgcttttat ctactgggt gatcanatga acagtgcctt 420
 gtgtccttgt anattcttca tcatg 445

<210> 21111
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21111

agcttgtatg attatgggt acccatcaca tgttgtacta ggtggcggtc gggcgatggt 60
gcacaacaag tttttccaca tccacaaatc gcgcataaac ccaccatccc ctgttgccca 120
cctccaactg agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180
tccccatcaa tcttcccaag cttccccaac atccaggtaa ttcaacattc aaacaacaca 240
aactatcaca gccaataaaa cagggcaaag gcagaaaact ctgccccaaa caccaaccaa 300
aatcacagct tttcccactt aaagacccca gtaacatttc cttcgtttca attcgttaac 360
cgttggatcg actcgaanat tttactggaa gtttctagta cataagccta catt 414

<210> 21112
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21112

tgaaacttga gtgctattga tatgaatatt gtgtggattt gcctcanaat gtttctgcag 60
cttatgaaat tttatttcat tggcttctta tgttttactg tggatcagaa tcaattaatt 120
atgagttgct ttcagaaatg tctttgtacc atttttctgt tctgtttgaa gtgattctca 180
gcttttatga gatttagttt tggttattgt ttaaggttat gtttggtttt tgcttttcta 240
aattcccttt catgaatggt tggttacttt gcaagtatgt tgtatattaa ttttttttc 300
ttctgaaact caattttata aaatcaaaac ttgatttatt tttacaattt caatttacia 360
acaactatga acttagttag aaacagaatt taaatatttt agtgagaaaa aatagtctat 420
aataccttca tagaaaaaaa tattacctat 450

<210> 21113
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21113

agcttgtgca ttcaatatcc taatgagggt gttccatatg ctctcaaaac tggactaata 60
catttactgc ccaagtttca tgatcttgca tgtgaagatc ctcataagca tcttaaggag 120

ttccatattg tttgttccac catgaaaccc cctgatgtcc aggaagatca tatctttcta 180
aaggcttttc ctcattctct ggagggagtg gcaaaagatt ggctatacta ccttgctccc 240
aggtccattt tcagctgga tgaacttaaa aggggtgtct tggagaaatg tttccttgca 300
tctaggacca ctgccatcaa aaaagacatt tcatgcatca ngccacttat tggagagagc 360
ttgtatgagt attgngatag attcaagaaa ttgtgtgcaa gctgtcctca ccacc 415

<210> 21114
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21114

aaagaccttt tgatcctcat gtgcttgtgt ttatggggtt attgtcaatt ttagaatctt 60
gccaaagtta tgtggtgttt gttttcatgg gtgctttgag ggtaaatagt agcctagaca 120
cttgaaagat agagtgtata tcttgtgagg ctttatcact tttcattctt caactgatta 180
actattttgc catgattggg ttgcttggat gattttcatg aatgtcttga cttttcggat 240
ctccttatgt tagatgttac ccattccttt cattccttga tgttcattga aaaatatgtg 300
aatgtttttg tttgcctctc tttgatatcc ttggattttg ttctttgctt cattttgccc 360
aagagttgca aaggctatgt atggnggggt ctgatgtgcc atcattttct tctattttct 420

<210> 21115
<211> 409
<212> DNA
<213> Glycine max
<400> 21115

agctttttaat gaactttctc ttcataataa aattcacata agtggttttga ggcataaaac 60
acacgtcata catatgattc gttcagataa caatcaatgt atattgatgt tctcctttgg 120
gtgtacacca acacacaaca tacaacatg atgatgctaa taaaactctt aacattattt 180
gacaattaaa tatgcatcaa ttagtagtac ctatttcctt tgggtatata agtaaaacta 240
attatacaca caaataactt acaattatat tcattaatta taagaacaac taatcaacct 300
ttgggcgatc cataaatgcc ttataacaat gaatttcaat gtaccataa accaataatc 360

atataattta gcatccatta ttctatgagt aattgaaata atcattaat

409

<210> 21116
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21116

tccatcaagt ggtatcagag cacaagagct tcaagtaggt gttccttaaa cctccattga 60
attgtttgct ttaccttctc ttccattggt gtttcttcat tttttctcca tgtatctcct 120
cacatgtctt gtgctaaatg ttgttaacat gattcttttag agtttccacc aattaaactt 180
gctatagaag caagatttga ttttctatgg ttcanatttc ttgttcttgt tcttgaacca 240
tgaattgtgt tgagtttagg ttcttttgag ttttgtcttg ttattttttg ttgctgaaac 300
ctaaatcata aaattcttac aaaaatatta aagtagaaga aaacctcaaa aatctagagt 360
gacttgttca cctattgtag ttntgtcata gaagtcattg ctagtcatga aactngtcac 420
ataagatttc ttatgttgtg ctg 443

<210> 21117
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21117

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aatcttcact atcaatttaa ataaatgagc tatccgtggg ccattaatgt tgagcttgta 120
atgcttgaac ttgactcatt taaataattg agcctatttc caagcttcac tttgtttatt 180
taattaaaca aatgagcttg attgagcatt taataagttg agtttgaata gttcaggaat 240
agctaagctc atttacatcc cttaaatttat tttatttttg aatctaagtt ccttatgtgg 300
tttagcccaa gagcatggta aatgtacatc atatgtggca ctaactttat tagttntttt 360
tgtctttctc caatctcatt gctgttagca tatctaaggt aatatcaaat t 411

<210> 21118
<211> 427
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21118

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tcccatacct tagcaaagtg agcatgcatt angcatgctt gaagataagt tgcttttctt 120
gcaagccgaa agaaggcaat aaaattaccc gttcggcacg ctctgaaaag gaaaacaaga 180
aggaatggtc agatcgcaaa catgataacc aaaaaagaaa caaaaactaa cttctacagg 240
aatttcaacc ttgctacact gcgagcaaat agaacttctg gagtctgcct tattgctgga 300
gtcatcttag caatttcaag ggagagctct gcaggttcaa cctagtatga catgcttagt 360
tccttggttn tttcgtagtg aataaagcca tataaatcan agcactacag aggctactta 420
ctttata 427

<210> 21119

<211> 408

<212> DNA

<213> Glycine max

<400> 21119

agcttttatct tctcaaggaa gcttctcaag gaggtgagct tagttttcag atgggtgtgt 60
gtagctaagc tctagcttct caaggaagtt ttctcaaaga agcttctcta ggaagttttt 120
tcaagaaagc ttcttaagga agctacctag tctataaata gaagtatgtg taacacttgt 180
tgtaactttg atgaatgaga gtcttgtag acacaactca tagttcaact tctctccctt 240
tttcttccct caatttcgtg ctccccctc tctctttctc tccctcttct tttatctcca 300
ttgaagcatc ctctccaagc ttcttatcca aggetcatct tgggtggtgaa gctccttctt 360
ccatggctta ttccctattg gatgacgcct cctctcacct cttctcct 408

<210> 21120

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21120

actcagctat gtgccaaggg tgtcgggggtt attgctaate tgcacctttg gtgaaatata 60

ttaccaaagg tttgggcttc gcaagactgc tctccctcgc ggactgcatg cagatatgct 120
 gctcttctct tccctcactg ccgacttcca gtcgaccttg atctatcacc tgctgtaaca 180
 attcctccac ttacaaacac gtttccatgt tatgcagctc gctggaatgc agcaaaactaa 240
 aatcctcctt atgcccacca tggggaatca cacctccctn ttgtagggcc tcaatgataa 300
 acctcctagg gggtgccaca tcctttaaag gttagaccgg cagggcctat ctgacccaat 360
 ggcgttaacc gccccccctc catgattggc gaagcgggtt ggtttcacgt tgggccgatc 420
 ctcttggaac gtcagccatc cagcatctat ca 452

<210> 21121
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21121

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 aatttataag tgatatgatt aatgttttaga tattttcatt atgaaactta agagtaaaat 120
 ttagtataat ttttatatca aatctaaaaa ctattcaaaa ttatttaaac ccaaaatcaa 180
 ttatagatcc aaattcaatt ttcaaactct ctgtatgcat aaaactaaag acaagagtat 240
 atctaaaata aattctaaac tcaaaataaa ttcttttaca tcaaaactaaa cacatgatga 300
 ttntttattt ttagttttga atttataaaa tattaaacct aattctaatt ctgaggggtga 360
 tgtttcgggt ttaagatatt agatgttgct ttaagttgaa aatagataaa 410

<210> 21122
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21122

tctaaatgag gggggaaaat gcgtaatttt ccagcatgtn ctttaacgca tttgtataat 60
 atttaggcat catttagcaa gagttagtat gctatctaac accacagcaa tgcctttaca 120
 gccatgctat gctgactgga aaaaatacaa ttgaaagtgc aggttctctgt tgcatacagg 180
 tctgacccaa cgggtgatgct gtgcctgtac agtttcaaag aaagtcaaat tttacctgat 240

gtgcaaagcg agagttctga taaccagtct tcatcagctg gcccacatggc tcgtgaaact 300
 gtataaagta aattgcatga attctagtgt ccctgaccag tagaaacaga acttataata 360
 ttgggaaaag gctaaacctc ttctaccttn tgggtgtaata ttctttgagc ttcttgatga 420
 cttaatcgta ctctctctct ttcaagct 448

<210> 21123
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21123

agcttaacat cagaccactt ccagggtgct ggaactactt cacatggact tgatggggcc 60
 tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgagg atgatttctc 120
 cagatttacc tngtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgaacca 240
 tggcagagag ttgaaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300
 tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360
 tttgcaagaa gctgctatgg tcatgcttca tgc 393

<210> 21124
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21124

tentatttag acctcgatcg gtcacttttt ctggccgacg ccgactgtca tttttttcga 60
 gcaatatcgg tgaataatat ttttttgccg aggtgggcta atgttttctt ggccaaataa 120
 atgggaacat gccagtttcg gccgaaaaga aacatcggtt gagctcgac ggaaaaacct 180
 agccgaccta cgttgtaaatt tttttaggca acacaaaaac aaaaaacttc ctctaccggt 240
 aaaaaaaca ttatcgcca gcgtttgtaa aagaaattgc gcaatttcgg ctgaaagata 300
 tcaatcaggg acatataacg accgacaccg gccattgttt attctattta atccctgaat 360
 aacaattgga tgatgtcgat tangaaatgt tcgatcggca tcatccggtg aagcttcttt 420

tttagacctc gatcggtcat ctttcctggc cgacgccg

458

<210> 21125
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21125

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gttagttgtg ggggtgatgt cgttgtttgc taccattgat ggtgggtcaa gaaaaaatt 120
tccctcacc cactgtggac gccaaatggt ctttctggat ttggcaagat cttctcatag 180
tggtgttcct ttataagctc ctccacgaat tgtggttaagt ggtaccatac ttgcaaagac 240
actttgacat tcaagttaaa ggtgcagagg tatgcaagca tcaatatgta ngttgaaatc 300
aaaatgaatt acctgaacca caactatccc ttntatagtg gtgagaatgg attatcttat 360
ctcaatctct catctaagac taatgtaaca tgannaaata tgatc 405

<210> 21126
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21126

tgtangcctt ggatcttggt catcaatgtg tttccattgc ttcttgaagt tcaactggcag 60
cggaatggag aaggaagaaa tatgattgga gatgccactt caaggagaag atgagtcaag 120
cacaagctca ctaccatagg aagccatgga taagagcttg aaggaggaga aaatgagtgg 180
agggagaagg agcatgaaaa ttctgtgcct caaatgaggt ctgaactttg aattataatt 240
ctcaaagat ccaaggccta caagctctac atggagctac atcatgtggt atcaaagcat 300
cttctctac gtgatgttct attgcttctt ctatcttttt gtttgggtcaa ttcactttta 360
ttccttggtc ttctccatgt atctctctca ttgtctcgtg gtttgggtgat gtttagagta 420
gattaaaaaa gataac 436

<210> 21127
<211> 399
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21127

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ttttagattc tttttctatc ttttagtaaaa tgtgatttgt tctttgaatt tcttcaacct 120
ttgtccaatg ttcacttgat tctaatttat agaatgagca atttagatgg tattattggt 180
ttgtctgata aagcagaatg tttaatgcaa tttataagta tatatttatc agtaaattgg 240
cattcattcc tgcaactcaa tacaattaaa cctattgtat ctatgctaaa taagaactta 300
aatgaacta tataaaatta ttttaattgca cgaatganat tatattcatc taagagcttc 360
aattatttga attacgcagc aattntatga acgctgttg 399

<210> 21128

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21128

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gttataacta gctgagtttg ttgttgtaag ctccctccat gtatgaaaac tattcattgt 120
aatcattca aaggatgatca ataatacaag tctcattctc aattctttat taattcccct 180
ctaaatagaa actctgtgtg tgtaaaccac ccttgctcca atagatttgg tatcaagagc 240
cttgtgcgat caagggagct tctgctgaaa ctgagagaaa cgttcattat tattgatcat 300
tgttgctaca accatggctg ggaattcgtg ttttctaaga aatttaccaa tacttgatgg 360
caagaattgt ggacgatgga acattcaaat gaaggttaata ttttggtttc aagatgttct 420
tg 422

<210> 21129

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21129

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tgtttctcaat taactcagtt gcttcttctg gggctctcag ttttatcttt cccctgcag 120
 aagcatctaa caattgcttg gtttatggtc tcaaccatc tataaacata ttaaactcgaa 180
 ttggctcata aaacctatgg gtgtgagttc ttctcaataa acctctgaac ctctccaatg 240
 cttcactcag agattcatca gggaactgat ganatgaaga gattgcagct ttcccttccg 300
 caatcttgga ctctgggaag tatctcttta ggaacctttc aacaacttct tcccatgttt 360
 tcagactggt acctttaaat aagtgaagcc acct 394

<210> 21130
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21130

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 agttcttctt aatgaactca gttcttggtt tcctttggga gaaggcaacc ttggtgtaat 120
 gatcctccat gcgtccgcat ttaaaaatct taagttttgt gaaaagaaaa tatagttaa 180
 ccaaatttgt ttttgtgaag ctgtgatgaa ttcttgcaga ctgcttggtt tcttcttcat 240
 tttttgctct atttgtgatt gggagagtta caaataaaaa ggagactctg ctcaatcttt 300
 ttagaatttt ttcacaagct taagtttaga aatttggggc catgagaatg gtgagattga 360
 ctggaagatt gagttctctg gactagtctc agtagttcaa gcctatctta naatctacct 420
 attggttttt catgaaattg gtctttnttt gcttt 455

<210> 21131
 <211> 390
 <212> DNA
 <213> Glycine max
 <400> 21131

agcttgagaca atggttgagg aatcttgcta aaatcctaga taaatctctt gtaaaacttg 60
 gatgtcgcag aaaagaacgt acttcccga cagatgcgtc gtaaggaaga gaagtaataa 120
 catcgatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180
 tacctccatg gaccataaaa tgacattttt caaagttaag aacaagggtta gtctcagcat 240

cgggtcaagaa ctctacagag gttatccaaa catgcatcaa aggaagaacc ataaacaatg 300
 aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360
 caccttttga aggtgccagg agcgttgcac 390

<210> 21132
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 21132

gcttgagtga tattgtcaca gaatacactt gaggcacctc ctctatttca tccacccac 60
 ttgaattcta gtcgcgcat agttaaaaag gtgtatatatt ttacagcatt gaggagaaat 120
 aataatcaag ggaataatca ttctattttc aaaataataa ttgttacagc tgtcatgaat 180
 tactagtagt tagttagagg gggtaagaaa ataaatagga aagactgaca gagggaggag 240
 aataataaat gtaagaagag ttggcctctc aaagagctaa gttaggattg atgcagctct 300
 tgctacttca tgtattttga taaagaacta tccaaggaag aaaagtttga cttagtgaag 360
 ctcaaattgg atggactaat cactagagca aggagtaaaa gatttcaaga agagtttgtc 420
 aagagactaa attctctcat ggagggaaaa gaagaagaag tg 462

<210> 21133
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 21133

agcttgatcc acctgcagtt ggcaaaatag tggcatatgt ggaaaacaat taattaatac 60
 aacttttttg tgcaatggaa atgaaaaaaa taaggatgat atcttgtaaa tggaaacttg 120
 gggattgttt ggttggaacca atttatgcag atacatatac attggaattt atttttctga 180
 gggttaatttc agtcatgacc tcttggaagt aattatgtct tttgcttctt tggatatttt 240
 gtgggttccca ttcttaattc attttttaat atctgccaca ggggtcaaat cagagttttg 300
 atcttcttat taagaaaagg agtgacatct gtacaataat gtatactagt ggaactactg 360
 gtgaccccaa tggagtgttg atatcaaatg agagtattat tactctctta g 411

<210> 21134

<211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21134

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 cttatagtaa aacacaggta gaaacgtgat atataatttc tctggcagtt taatttttga 120
 agctgtgcat gttaaacaat ccaagaagag gtgagtagtt attatgagat ggcgcaattt 180
 gcagctccaa ctaataaggc tggttacgta cgcagacgga gcacatggtc cctcagagac 240
 ttattaactt tacttgtcta attcactgct tatggcgcat cacgtgcccc tactcttacc 300
 attaaggact tggatactaa ttgcaaaact ttntttctcc tattttttacc agtaagggtca 360
 agtggtttaa tagattgtaa attactagta tnttgatttt ttaatatgat tatatacaca 420
 ttattggaga ataaatgcaa gtttctgtat tct 453

<210> 21135
 <211> 325
 <212> DNA
 <213> Glycine max
 <400> 21135

agctataaat ttgatttaa aacgttcaga aactgctggt aatctattac catatatgtg 60
 tgatctatta cacagggcaa attttgaatg caaatgttat atagctgttg taaatcagga 120
 ttggctcact ggtaatatat gacatcctct ggtaatcgat taccaaacag tttgtagtat 180
 gcaaaggact gtgtaactta catctcttgg acaaaccttg tgctacttca ataggaagac 240
 ccttcctatt taatataccc ttataagac tctatatact gtcttgatca tccatcgcca 300
 atatcatgaa ttgcttggtc tcgaa 325

<210> 21136
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21136

tgtctcttca tatttaaagg caatgaaatt cttattttgc ttatactcct tgttttgatg 60

gtgaacttca tagactctca agatgctcag tagctcatcc catgcaagat tttttttttt 120
atctcttgct tcttgaataa ctatgggtctt tggttcccag accttaggga agctatatag 180
ttccaaaaat ataatcatca naataaataa aattatgact tagaaccaca tattagtggga 240
tggtatccaa acctctctcc atgtgatgtg tgtacaccaa agcttaaaag cttctcttga 300
agtgtcatgt tgatttcgaa cctcttagag catccncaat gagaaatgct tacatgaatt 360
gtttaacttt aagtaacgtt gcttattatt gtcaggcccc actagtctat atttaatata 420
anacaatatt ataagaattt actttctata ttaaaat 457

<210> 21137
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21137

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cctttctctc tctaaaatct ctagacatgc aaagctctga atcccagtc aaactcctta 120
tctaaaatct gatttcaggc ttaaataggt gaccttggtc gtgctcgtgc gcttagcgca 180
atcttgacc gcttagcgca cattagtga tttcggttta gcgcgtgcct ttgtcgctta 240
tcggatggac tgaagcgggt cgcttagtga gatgaagcgg tgcgcttagc gaacctatac 300
aactcatctt cttccagatt cttccttgcg cttagccaat gagtggttac cttagtgggc 360
gctcgctaag ccaatggact ggcttagcga gaaggtgaan aacaacac 408

<210> 21138
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21138

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cgtctcaaat cacctttact ccttctccat tccactgcca ttgatcttca agaagcaaag 120
gactccattt atgaagaaga tccaaggcct acaagctcta catggaacta cattataaat 180
ggagaatgtg tacagattgt agggctatca acaacataac tgtgaagtat aggcacccca 240

tttctaggct tgatgatatg cttgatgagt tgcattgtgca aacatatttt ccaaaattga 300
 tgttaaaagt gggtatcacc aaatagggat tagagaaggat gatgaatgga aaaccgcttt 360
 caagaccaag tttgggttgt atgagttgct agtgaatgcc tttgngctca ctaatgcacc 420
 aaacaccttc atgaggctaa tgaat 445

<210> 21139
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21139

agcttgtaat cgattacaca tatactgtaa tcgattacct gagcagattt tcagaaaata 60
 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gcgaagagtt tttcaaaaca aaaaagtctt atcctcttat 180
 aaagcaaaat tgttttatcc tcttaciaat tccttggcca aattacttgt gattcaataa 240
 ggaatttttg agtgctcaaa ttgttcaatc tatctctttc aagagagatt tcttcttttc 300
 ttcttcttca ttctgaaaag ggattaagag accgatggtc tcttggttg aaagacatct 360
 aaacacaaag tgatgtgaac cttacngtgc acggatcgct tgataca 407

<210> 21140
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21140

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 ctttgccat aaatagccat cctaggggtg ttttaagggg ttccaagggt cagaaggatga 120
 gggaattttg aaaagagaga aagaagagga aacaaagtcg aggcattgcc gaattgcaac 180
 cgcatcatt ccctatttcg ttntcttggt ctgtgttctt cgtgcaaccg tcagttagtt 240
 tatttttttt gtaattgaat gtgatctatg tacccttagg ggtgcccccc ccccttggt 300
 attttgatga tattcatttc ctccatctat cattgacgat ctcatctttc tttataaagt 360
 tcaatcttaa ccgatcacta gtgttgtaaa gttgtcttta nagagattga aagttaataa 420

acaaagccaa gataaaacca actcat

446

<210> 21141
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21141

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caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc cagggttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180
gtattcatag ttggttccat ccagaatagg tggctgtgtc actggtcctc cttctttctc 240
catgttcac agaatattc tccctagatc tcaactcagt atttcgagtg ttggctctga 300
taccaattga aattctgata ctgngacag atgtcgtaca ggatgtcacg acatcacgct 360
tcagaacatg cagattgtat ttgacagtgt gcacagttta agcaagt 407

<210> 21142
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21142

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actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctctg 120
tcctttcttc acgccgcatc ccattgcctt cgaactcctt ggagtaccct cgcgttgtgg 180
tcactaaaac cccgtgcatg gaaaggcgtg atgctttcgt ctaatggcgc tcctctcatg 240
gggtagccaa gctgtcttat ggcgagaacg agattataat taatacaact ccttggtccc 300
atcaaggga catttgga tccttcgcat gaagatagaa tctcgattct tccttccttc 360
tagcgaggga accaattaac agacgcccc ccattgctagc caagagttgg tccaattcg 420
cctttccttt ntgcagcac gagcg 445

<210> 21143
<211> 407
<212> DNA

<213> Glycine max

<400> 21143

agcttctcca tgcaaacttc attaaagagg tcaggttttg tacttggtt gccaatgccg 60
tcattggtcaa aaaggccaac ggcaaattggc gaatgtgcac cgactacact aatctgaaca 120
gggcataccc caaagacgtg taccctctcc ccagcatcaa taggttggtc gatgaagcgt 180
acgaattcca ggtgctaacc ttcttggtg cctacttcgg atacaactag attagaatgc 240
atcctctaga tgaggagaaa atgaaattca taactaaaaa tgtcaacttt tgttacaagg 300
tcataccatt cggcctagaa aatgcaagcg cgacattcca atgaccaatg gaccgagtct 360
tcatacaaca gatcggacga aatgtcatgg tatatatgga tgacatg 407

<210> 21144

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21144

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acgttgcttc caatatgctt cctcatgggc aaggagatgg ttgagcttat atttgataat 120
ggaaaattga agagttggct cttcataata agcttctcta agggctctcca attctttttg 180
gtatgaatct atttggtgac aaaaagaatt ttccagttta catccccaag catgcatgac 240
tgaggaagat tttccaagac ttgaaaggaa atcatcattg ggtgcactag tccacccta 300
ctcaaaaaca agatcaatat ctagtttaag gagccaagag ttttcaaagt agaatttgct 360
tttgaacaaa tcttttgtgt tgacatcaac ctttaaatg attggagagt gatc 414

<210> 21145

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21145

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accaaagacc ctgtgggttc tacttataac ttatgaatag aacatgtgtc attgtgaaat 120

tttgaaactg ataatgcttc tctaaactga tgcacacccc ttccctcttt aactacatta 180
 tcatctcata aactatgccc accacctgct tgtgacaatt cttacataaa actgaaaaca 240
 atgcttaaga atatgcgact aaaacaagta tgaacattaa acaattcaag taattaagca 300
 tggcttcttc ctcaaagta tgttctgcag caagaacaat ctttccctta agtcctaatt 360
 tggagaanaa taaaacttgg aactaaaatn gaaagcttgc tt 402

<210> 21146
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21146

tatttaattn tcttttctta taagtgccta tggagaagtt tatccaaaca gggcatcaat 60
 tgcatttcgt tcattntggt tatttaattn tccctactaa gtctattcat gtcttgctgc 120
 aaattntatt ccaatttctt gtcttanaat tttctgcatt aactgccatg atctccttca 180
 ttntgtatth taaaacaaat atgctctcat acgtaaagta aatgttctct tcgaatagtt 240
 tatgtttgac ttaattcaat ggcatttgat ctatatggcg tggatctcac gtagtgggaa 300
 aagggttatgg gtttggtgat gttgaattcc atatataatt aaaaaagaat aatggatata 360
 atattctaga gacccatgca ctcatth 387

<210> 21147
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 21147

agcttctcaa tagagttagg caggtaactc tgtaataagt cttaaactct atccctacat 60
 acattatgca aaatatgcag ttgccctccc ttagagctt gtaggccttg gatcttcttc 120
 atcaatggag tcctttgctt cttgaagatc aatggtagta gaatagagaa ggaggaaagg 180
 tgattggaga tgccacttca aggagaagat gagtcaagaa caagttgacc accataagaa 240
 gccatggata agagcttgaa gatagaataa gatgagtgga gggagaggga gatgatgggc 300
 acgaaatcta tttctcacat gaggtctgaa atttgaagtg taatttctca aattatcaaa 360
 gctgaataat atgcacaca 379

<210> 21148
 <211> 435
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21148

tgtaaaaatt tatagtgaca cccttcaaca tacatatagt gtaacacaaa ttcacgtcac 60
 tcagtttcac tttccaaagg aattgtttta tttaaaaacc atagttggca tatttttagaa 120
 aaataagagt ctaagattat actaaaatag gaaaacactt taaaagtttg tggggattta 180
 cagagactat ttacaatgtc atagtaacaa aacatatttt tccaaaacta aatttgcatt 240
 ccaagtaccc ttttcaaact tattttcctt ttgttggcaa aattctattn tagtcgtaat 300
 aaatcatttt taattaacaa agtaccttga aaatntatga gaaaaatgaa gcattctctt 360
 tagagataac tntacgacan ttcattttca tgcattganat atatgcacta natcactaaa 420
 tatatacttt ttttc 435

<210> 21149
 <211> 404
 <212> DNA
 <213> Glycine max

 <400> 21149

agcttgtgcc aatcccacat ggttggagca ttcttgcaaa acagcgtgac cccaactggt 60
 ctctctatga ttttacctag tgagagtgc ctaacttact agtgtatggt ttgacttggt 120
 atgtactcct aggcgcccga cgagggtttt caatgaaacg gtaccacatt gcatatagga 180
 ttgagtctta gtgtatttgt tgcataacgc ttgtgtattg atagatattg attgatttag 240
 taatattgtg ttttgatcct tgagtacgtg aatgttgtga aaatgaacga gacatgtggt 300
 gtgatgtgat gttacacgac aaagtgggtg aatgacgcga actatgttta agtaagttgt 360
 atctcattta tatgatatgt atatctatgt tgtctcattt ctct 404

<210> 21150
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21150

atagttntat gtcaagattc atgaatagtt ttatattaca ttctaattat cccttcatgc 60
caaatccctt atggcttgaa gcgtggatag tgtgcaatcc caccagcctc gtgcttaaat 120
ttaactttnt attacaaaaa ttggggcagc acagattgaa atctagaaca ctaagtcata 180
gaatctttgt taccatatac tggacctatt atcccaaaat cttgagctat taaagtgaag 240
atgcatgatg attntatatt acgtctctaa ctcccataat atttaacaat ttggcacttg 300
gatgaataaa ttntgtttga cttctgtcat ctttctgtgc ttgtgtgtgt agaatgtgat 360
agagagagat gaaatgaatg tctggagatc ttgaattgga agtttatgta tgatttcaca 420
tgtcaattca ctgactaa 438

<210> 21151
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21151

agcttcacag tttattnttt tcaaacttga gttttggaag accaattact aagtctttcc 60
taactagatg atataaatga tggatgttaa tgtgttcaac cctacaatgc cacaaccatg 120
aatcatcatc tatcttactc accaagcaac ttagctcatg aaaagatgca tgctcaacat 180
tcagcatata aatattacct attctcttac caatgtggac aactttacca gatatggctt 240
cacttataag atagcaattt ctgtcaaact caatcttgaa acctttatcg caaagttgac 300
taatgttttag aaggttatgc tttagtgcac ccatatgtag cacattcttt atctgagttt 360
tgtgttaatt ccttatattt ccttccccag ttattttt 398

<210> 21152
<211> 452
<212> DNA
<213> Glycine max

<400> 21152

gcttcatgat gatgaatcaa gttgattcaa gtagttttga tgattacaaa gatgatgaca 60
aaaagcccaa gagaatgatt tcaagattga ctcaacaagt ttcaagaatc aagagaagtt 120

tgatttcaag attcaagaga agatgaattc aagattcaag agaagaaatc aagaagactt 180
 cacaagggaa gtattgaaaa gatttttcaa aaaacaaaca tagcacagtt ttttttttca 240
 aaacagtttt tctcaaaatt ttctaagcta ccagagtttt tactctctgg taatcgatta 300
 ctagtttctt gtaatcgatt accagtggca aagtttgatt tcaaaagttt tcaactgaat 360
 ttgcaatgtt ccaattaatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcgat 420
 tactagtata tctgaacatt ggaattcaaa tt 452

<210> 21153
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21153

agcttgtgtg atgttgcgcg tactgatggg taccatgaga tgttttctgg ggtttgaccc 60
 acgcggtgtg tgaagagacg gcatgggcat ctcttctctt cctttntgcc cctgttgccc 120
 cgattctttt ggcattcgcg tttgtagagg aaacgtaatc aaactttcct cttttcaatc 180
 caacctcgat tctttccccg gcaaacacca gatccgcaaa gctggacggc atgtaaccca 240
 ctagcatctc atagtagaac actggcagag tgtctaccat catggtgac atctctcttt 300
 caaccatggg aggagctact tgtgccgcca aatccctcca tcgctgcgca tattctttan 360
 aggtttcacc ctctttcttg aacatattct gcagttgagt acggtcagga gc 412

<210> 21154
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21154

tctatggagg ctggatcttt gagctntaat aaggctcttc tttgtgattt tttgtcatgg 60
 agttgtagcg gaagataaag gagaagaggt tagaggaggc atcatccact agagaataag 120
 ccatggaaag agaagcttca ccaccaacag agtgccttgg ataagaagct tagagaggaa 180
 gcttcaatgg aggaagagaa tgagagagag ggggtgcatg ggaattgatg gagattaggg 240
 agagaagttg aactttgaag tgtgtctcac aagtttctca ttcataaaag ttatgacaag 300

tgttacacat gtttctatatt atagcctagc acatgggaag cttccttgag aaacaatgaa 360
 ggtagcttcc cggggaagct agaggaagaa agcttccttg agaagttaga ggggggctac 420
 tcacaccctt ccaatagcta agctca 446

<210> 21155
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21155

agcttgtgat gttgttgttt gttgggttgg cctctggctc tttcacttat agggatagta 60
 ttttgcattg tggtatgttc tgtaatttgc ttggctttgg tactagtttc taactaatgc 120
 tctcatgaat gaaatatact attattaggt gctctcagtc atgggtatatt tagggatcat 180
 ttgatgtagc tatatgttta aggacaccct cccaagaccc actaaacctt gatgccctat 240
 aactatacca ccagctaac tgcattttga tgatgtccat cagtcacctc gtcagacaca 300
 tgtaggctga agtagtaact tgtggttntg tggaatcgtg tccccaggat tagacctctc 360
 cagaggagca tttcgaaaca attatttggc ctagaaaagg tactttgatg taa 413

<210> 21156
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21156

gcttctgcat gtctagagat ttctagagac agaaaggctc aagttccaga gagtttgaga 60
 gattttgttg tgcaaggacc tgcagagacc ggagcttgaa gaggaagttg tcctgagagc 120
 ttgagatgtg tttgtgagtg agtgtgaggt cctagagggtg gaggaacat cccactact 180
 tgtatttctt caatccttca tctttctctt ctctttgttg taaaggaagc ttcccagtta 240
 tggagagcta aatcgtctgt tgtttcttcc ttgtaggtac ttgatgtaaa tacctatata 300
 tctatttaat gatgttttgt gtgttcactg tgctatcaga acttcattct accatgcttt 360
 tgtcttgatc atgtagatgc atgtgttaat aggatcattc aacagtggaa actgggttga 420
 ttcttanaac ttgataaggc agggctagtt tatcgtatta tc 462

<210> 21157
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 21157

agcttggacg aataagggtga tgcacttagg aaacacaaca acaaacaggt atgaaaatgt 60
 tcatttttta ttaggggtga tgaattcatg gattttaatt gttttttgtg tatttgaaat 120
 gtaggggtga atttgctcat tggtatttgg gatgccatga acaacatgat aacgctgcaa 180
 cacactgaag ttaaggcatc ctttgagaca aatacacatg tggttgtaca tgtttttaaa 240
 gttaccttat acaagaggct acttggcatg gtatcaaggt atgctttaaa tcagattgct 300
 gctgagtatg gccgtgcaca ttatgctgga aaaaaaccct tctcattgtg gatgtgtgat 360
 aagaactacc cacggtcttc catctgcatg tgagctattg aagtatgctc tt 412

<210> 21158
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21158

ctcaagcttg gatttccttt gctctggaaa cctctccttt cttatgtgaa cccaaaccca 60
 tctctccaga ttggaaaata acctttttgt gcccttggtt tgcttgttta acataactct 120
 cattcttctt ttcaatttgg gccttgacta tttcatggag ctttttcaca tagtccactt 180
 tggcttcctt ccttatgctt aaaaactgaa atattagaca ttggttaaca atcaagagga 240
 gttagtggat tgaaaccata agcaacctca aaaggagaac aactagtggg gctatgcaca 300
 accctattat gagcaaattc aatgtgaggt aagcaaactt cccaattttt aagattcttt 360
 ntcaaaatgg tccttagcaa ggtacccaaa gtcctattca cgacctccgt ttgtccatcc 420
 cgttgagggg gacaagtagt a 441

<210> 21159
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 21159

agcttgtcct tctattgtta cattctcccc acactgcaag ttctgacttg aaaaaaaaaa 60
 attatatcat gcaaagtctc caaatgaatg tggcacgttt ctttttcaat tctcaciaag 120
 ttatgttgga tcatatctcc caaaaagaaa aagaaagaaa ggaaaaagtt aagttggatc 180
 atggtatgca taattgaatc aattgggcaa aaattgacaa cacaacatgt gatcaataat 240
 gttttgttaa actatgaaaa agaaagggtt tgtaaacgg tgcataggga gttctgcttt 300
 cagaatctac tactatTTTT tctgatttca gaatcaaaac cataaaaggc tacaacaat 360
 tacagctagt taaccaaaca gcttgcttca attcctcatc tcata 405

<210> 21160
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21160

tgcccagaga aggagtccac ggaggaaatg cttaccacct ttaagactg gaaagcggtt 60
 tctaatact cctctgcggc ctccacataa ggcatagagg acgggcagct caccaagatg 120
 tcttcttcgc ctgatacgat gaccagatgc ccttccacta cgaatttcaa cttttggtgg 180
 agtgtagagg gaacaacccc cactgagtgg atccatgggc gccccaacag atagttgtag 240
 ggggggttga tatccattat ttggaagggtg acttgacagg tgtgagggcc tatctgtact 300
 gggagatcga tctctccct aacctctcgg tgggtgccgt cgaaggcacg aaccaccatt 360
 gaccttggct ntaagtagga ggcattgaat ggtaatttct ccaaagtgtc cttatgcac 420
 acattcaaac tggaaccatt atcgat 446

<210> 21161
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21161

agcttgcaca acaagtaact aaatctgttt ttgttttttt ttacaaaata aagtaactaa 60
 ctaaattcca ctaatatata gagtgactac tcagaaggaa gggtaggca ttgattaggt 120
 ccatctaate tacctaatta aactatttac acaacacaaa gcccaacttc gcaaccaat 180

tattaaagtg cagaggttct gacttccaag ccgaatttga ccctcaaaat gacagaaatg 240
 acccaagcta attttgaaaa aattgaagat ctttttctta gctnttcaga gactactcac 300
 acacccatt tggagttcta caatgtacta tagactctgc acaagacaaa taggtcaagt 360
 gagcataaaa ttctaagaat aagccacaat tattaattaa gcttaatcat 410

<210> 21162
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21162

tcttatccaa ggctcatctt ggtggngaat ctctttcttc ttggcttatt ttctagtgga 60
 tggcgctcc tctcacctgt tctccttctt cttccgctgc atctacatgg tggaaaatca 120
 ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180
 cttccatcaa gtggtactcc accttgaaa ggatttgacc tcaaattccc aggttcttta 240
 tactctgggc tccttcctc aacacctgta aaaagaataa aaacatatgt attagcgggtg 300
 ttgggttaca gtagggtgaa gtctgaaaac ccctttcatg gacatcttcc catgagggaa 360
 catggttctt caccaattca atgagtgggtg ctacaagtat agaagaatat gggacaaacc 420
 ttttgtaaaa gtttattaag tcatg 445

<210> 21163
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21163

agcttggatt tcctttgctc cggaaacctc tcctttctca tgtgaaccca aacccaatct 60
 ccagggttga aaacaacctt tttgtgcccc ttgtttgctt gtttagcata gctctcatc 120
 ctcttttcaa tttgggcctt gactctttca tggagctttt tcacatagtc tgttttggct 180
 tgtccttctt tatgcttaaa aactgaaata ttacgcattg gaaacaaatc aagaggagtt 240
 agtggattga aaccataaac aacctcaaaa ggagaacaac tagtgggtgct atgcaccgcc 300
 ctattataag caaattcaat gtgaggtaag caaacttccc aattnttaag attctttttc 360

aaaacgggtcc ttagcatggt acccaaagtc ctattcacga cctcc

405

<210> 21164
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21164

taaggagaca agcctagatg actatgtgat tgacctatgg tttaccctgt ttaacatgcc 60
aagccatgcc ttttaggatt agagttgctt ttgaaattnt aacaaaaaat ggttaaagta 120
agtttaaacc aaaaatggaa actcatccta tcctaataccc ttagatagag gtgtgtaacc 180
ttccttgat tttgtgtaat ttgagtgaac cttgcacaaa gtccactctc atagagcaaa 240
attacactgt cactcaagac atagtgtaat tctttcacag atgaaacttt agctcataaa 300
ttntttatat ctctctcaag ctatgtattn taagacaatt cctagttata atttgctaac 360
acattcatac taaaaaacaa tgggtgcatac gttaactgat atctataaaa atatatacaa 420
atacttaagt atttaattt aat 443

<210> 21165
<211> 412
<212> DNA
<213> Glycine max

<400> 21165

agctctgcat tatcgagagg aagcacttcc tccaccacct tgtgattatg agagatagga 60
tttggtggag ggattttgct ggagagaatt gaagcctcaa accagaatga atctagcaac 120
ctcagaacat gttctgcagc cattattatt actgtcacia aatgaatgaa tagcttaaat 180
tgaaattaga tcctacaaag atatgatgag gatagaggag attatagaga taagattaag 240
atgtgtgtcc tatgtggcta tttatattaa gagtggcatt acttaattgc cagtggctct 300
atatgtctgtt gttttattcc cctattttat tcgaatatgc aatatgggaa atctcacgaa 360
gctttcttct tatgtttgtc tggttctgag aaaatgatga aattaatatc tc 412

<210> 21166
<211> 471
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 21166

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 acacttacct cagattaa gttttttctc ttctttgata cataaatgaa ttgggttaaat 120
 gaacctaaaa gatgggtttt ttttttataa aaaacatttg ggtaaagcag ccaattctta 180
 agatgctttg gtatcccgt ccaaattgga cattcttggt acacaactgt tgttctgaac 240
 gtataatata ttgtaatcaa cgaaataaaa ttactatcaa tcaaagatac tagggcatta 300
 acataattat gagtggatta gttggaatta aaaaaaact gantaacggg gttgattgaa 360
 tttaactaaa ttcaattata acctttttct cagtaactaa ctaattacaa aaagcaacac 420
 aagactcgat gagtgtcttc atgccccaaa atatgatact atgttacata g 471

<210> 21167
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21167

agcttatcac cacaagttat ttctgctaag catgtcttaa atagtaaagc attgtaacaa 60
 atcttgattt tacacacaca cacaaacata tagtggaat acaagaaatt ataaacttta 120
 atatagaagt actagacatt gccaatctga agtgaggagg aagaaaataa gtactgttga 180
 agatacacia gtacatacta tcttgactg aaaactgggt ctgtgtcagg tgatggttgt 240
 gtccttcgag tgtatttgag tagcaaccct tctgaagaaa gacctggtac cttcagatct 300
 ctgaaacatc tcataagggg ttaattcana tgtaaaaaag atgatacgtn tgaaggtaaa 360
 aataattatg agatgttcac ctgatat 387

<210> 21168
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21168

taactgtttt gtaaaatgga acatatgaac taaatcatgt ttgtgataac aagatatgtt 60

[illegible]

<400> 21169

<210>	21170
<211>	409
<212>	DNA
<213>	Glycine max

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acctggagat	atgtcgcgng	ggtcaggaga	ccttgtggac	gtcaggtggg	gtgctattgc	120
ccanaaccaa	gcttgaccaa	tcccgaccca	acccggcata	gtcggtcagt	gagaacctgt	180
gatgtaccta	agcaggcgag	ctcctggcag	tcaacagata	aacgganaac	aagaccacaa	240
agcaaggagg	cttgtggtgg	ctggccaact	gtgaattttg	tgtgatatgt	ggattatgac	300

ctctggtaat cgattaccaa ggggtgggtaa tcaattacaa ggcttanaaa tgaagacagg 360
aggctaagat ggtctctggt aaatcgatac caaggggtgt aatcgatta 409

<210> 21171
<211> 205
<212> DNA
<213> Glycine max

<400> 21171

agcttctatc ctatggactt accttgaatt aattcctttg atagccccctt tgagcctatt 60
ttcccatttc tttgttttga agctcattac aagccttaag tgaaaaacca tgatatcacc 120
ttacccttaa ggaatttttg agctttggaa ttgttttggg aataagctgg gaataagtgt 180
gtggtggggg ggggggtttt aaaat 205

<210> 21172
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21172

tatatatnca atagtattta tatggtctat ntatgtatat gtgntatatt tgataaatga 60
atagtttgag gtagtataag ataacaattt tgtatagttt agtttgaatt gttaatgtta 120
tatatgccag attatntttt gataaatgaa tagtttttagg tagtataaga taataattct 180
gtgtaattta ttttgaattg ttaatgttat atatgccaga ttatattttg ataaatgaat 240
agttntaggt agtataagat aataattncg tatagtttag tctgaattat taatgttata 300
tggtagatat gatatacggg tatatgataa attagtgtcg caacctacc 349

<210> 21173
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21173

agcncgctac attggataac atganaaact gtctttgcag agacagagag ggaaagatgt 60
gaaaaccag ttacctaggg gaattttgcg atccgctccg agtaaactac actagtttgg 120

cactaggttt gatgacatgt caatgagtta cttacagaaa tgatccaaca attgaatcag 180
 ctctggctaag ggtctgggtt tcgattcaac cagccggggc gagccgagtt taataacact 240
 gattgngtgg gttccttact tagtattgaa aatcctgctt tcaatttgat agtaggtagt 300
 aaagttcttc ttcattggagt atgtctcatt aagattctcc cgcatttcac aaatggaggt 360
 agaaaacata caattacagc ttattttttg aatc 394

<210> 21174
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21174

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 aagatcaagc atcaagaatc caatccaaga ttcaagagaa gaaatcaaga cgcaacatgt 120
 caagacttca tataggataa gtattaaaag aatttttcaa aaaccaaata gcacagtttt 180
 gttttacaaa agaattttct caaaattntc taagctacca gagtgattac tctctagtaa 240
 tcgattacta gttatcagta atcgattacc agtgaccggt ttggttntca aaatgttttc 300
 aaatgattta taatgttcca aaatgattnt caagtagtgt aatcgattac actgtattag 360
 taatcaatt 369

<210> 21175
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21175

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 ttnttaaatt tcgagcctct caacatatta tgcgcccga tgggacatcc gtgtgaaaag 120
 tcatgatcat tngaatttct cgagagtttc cgatgtttta tttcgagcgt attgatatat 180
 tataaccctg aatcggaact cagtgtgaca agttatgacc atttgaattt gacgagagct 240
 tccgttggtc aatttcgaat atcactatat gtgatgcgcc taaattggac atccgtgtga 300
 aaagttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360

acgtgattng catgaatcgg acatccgtgt gaaaagttat gaccatttga at

412

<210> 21176
<211> 371
<212> DNA
<213> Glycine max

<400> 21176

ttcgtcttct tctattgtcc agtcttcttc tggcttcaat tcattagtgg gctgtccttc 60
tgtgtccaac atcttgggat gttcccagcc tttgatgaca gctatccacg ttctgctatc 120
cagtgattcg aagaaggcca ccataccttc tttccaggat tcatagatgg ttccatccag 180
aatgggaggt ctgtacacta ggctccttc tttctccatg ttcatacaga ttcatactccc 240
tagatctcac tcagagattt ccagtgcccg ctctgatacc aattgaaatt ctgataccaa 300
tgccagatgt cccacaagat gtcacgacat cacgcttcag aacatgcaga ttatatttga 360
gagtatgaac a 371

<210> 21177
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21177

agctttttcca ttttttgcct gatgcctgaa atgtcttttt tgatgttagt ggnccatagat 60
gcacggaaga atttctccaa gaacaccctc ttaaggatcat cccagctgaa aatagacctg 120
agagcaaggt agtataacca atcttttgcc actccctcca gagaatgagg aaaagccttt 180
tgaaagatat gatcttcttg gacatcaggg ggcttgatgg tgaaacaaac aatatggaac 240
tccttaagat gcttataagg atcttcacct gcaagaccat gaaacttggg cagcanatgt 300
attagtccag tcttgagaac atatggaaca cccttatcag gatattgaat gcataagctn 360
tcataagtga aatcaagtgc agccatctcc ctaagagtcc tatcac 406

<210> 21178
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 21178

actagtcact taaaaagttt ttgtctttcg taaaaatctt tanaaacaag tcaactggaag 60
aattgtgact tttggaaatg tatctatcga aatcagtcac tggtaatcga ttaaattgtga 120
ctcttcattc tgaattttga anattaaaac gtttagaatg tctggtaatc gattacaagt 180
gttggtgaat cgattacaca agtttataat gatntaaaac tgttaaacac aagttgtaac 240
ttttgaaatt cgaaatctga acattttaaa ctctttggta atgattatgt gaaaacttct 300
tgtggtattc aatgttctga caagcttttt tagtacttat cttgattgag tcttctcttg 360
attcttgaat cttgagtcct gaatcttgat cttgattatt ctagaatcat gattcttgaa 420
cttgattctt gaatcttgga ttt 443

<210> 21179

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21179

agcttgtttc ttatatgttc atgaaggaca aggcaaccga aggaactagt tccgctccgg 60
agtatgacag tcaccgcttt aggagcaccg tacaccagca gcgcttcgag gccatcaagg 120
gatggtcggt tctccggaag cgacgcgtcc agctcagga cgacgaatat actgatttcc 180
aggaggaaat agggcgcccg cggtgggcat cactgggttac tcccatggcc aagtttgatc 240
cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgagatccta ngtaaggggc cagtggatcc cgtttgatgc tgacgctatc ggccaactcc 360
tangatatcc gttggtgttg gaagagggcc aggaatgtga gtat 404

<210> 21180

<211> 467

<212> DNA

<213> Glycine max

<400> 21180

atctatgtat ctaacacccc tcaatttatt ggattttcaa ggtttgagaa gtgaaaatga 60
gaatggggta aatttggagc aaactctcac ctacacgag tctatatcat caatctaaac 120
ttgctcaaac tggttttacg acgaaaattc taccgaatca aaatttgact cctcaacacc 180

caatTTTacc ctacaaatgg ctcttgctt cattttggtc atttgTTTT ctctcttgca 240
 cagcccaagc ttcctcataa gtcttaaag acatttcaaa ctaggattaa ctccctgtaa 300
 cctccaaata ccactaaatc cagacttggc ctccaactc tcacagtctc actctatttc 360
 cactcataac actacattct cactgtctaa ccctatgtta actctaccct tcatgcctag 420
 cagttttcca tccacaattt cagcacataa acatcacaag catcatc 467

<210> 21181
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21181

ttcttgTgtt ctTggcaatt tctttaaaac tagtcaCTta aaaagTtgTg actTTTgaaa 60
 aaatcttcag aaacaagtca ctTgatgaat tgtgactTTT ggaaatgtat ttttcaaaat 120
 cagtcaCTgg taattgatta ccattaaggt gtaatcgatt acacatcaac agatatgact 180
 tttcatntg aattTTgaaa attaaaacat ttagaagctc Tggtaatcga ttacaagtat 240
 tttgtaatcg attacacaag tttaaaatac tttaaaactg tttaaacata agttataact 300
 ctTgaaattt gaaatcttag cgttttaaaa cactggtaat cgattactac ctTctggtaa 360
 tcgattacca gagagtaaaa ctctttggta atgattctgt gaaaacttct t 411

<210> 21182
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21182

gaagctagat cttagctaca catacctctc taatatgctt atctcacctc ctTgagatga 60
 gaagctagag cttagctaca caccctata atagctaagc tcaccccat gacaaaatac 120
 atgaaaatac aaaaaaaaaag tccctactac aaagactact caaaatgcct canaatacaa 180
 ggctaaaacc ctataatact tgaatggcca aaatacaagg cctaaacgaa ggaaaaaacc 240
 tattctaata tttacaaaga taagcgggct catacttagc ccatggactc aaaacctacc 300
 ctaaggctca tgagaaccct atggccttcc ctTggatctc Tggccaatc tactTggagt 360

cttctatcca atgcccttgg agggtaggat tgcacacct atcac

405

<210> 21183
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21183

agcttcttat ttttttcccta taaatagggg aaggaggga gaataaaaat gttcaaccct 60
cctgggtatgt gagattcact taaaattagt gagaaaaatt gtttccgtga agaaaattca 120
agccgaggcg cttccgtaac gtttccgtga cgtttccgtg ggtgattttg caaagattnt 180
caaccgttct tcgtcgttcg tcgttcgttc ttcggtcttc aaccggttaag ttcccgaat 240
cgaacttttc aattcattct atgtaccctt agtggtcctc atttggttcg cgtgctttta 300
ttttcatttc atttactttc tgtacccct tatgacgtgc gttagtcatt tatttaagtc 360
attatctcgc ctaatcgaaa aataaaataa atttccaccg atcattcgta ttg 413

<210> 21184
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21184

ctatagaaca ctcacgcttg ttganatcca tggtttttac atagganaca gnatctcata 60
aattttatcc tttttacata gngttctaga gcaacaatac tctgttttgt ttataatgaa 120
atctggaacc aattctaaca ctagcaagaa agtccaatt ctaggagcta tggggaaatc 180
ttagtgctgt gcaagaaaca aggagggttc atgatgtagc ataccgaatg gagggattaa 240
cagaaaagtt aaaacttttg agaacttgg accacatcag aaaaccaaga ctgcacttg 300
aggatgagga agactggaga gatgtagag cgcataatgg cttcccccaa caggggtccc 360
aaaacatctg cagggcattc agagggaat gcagagcata atac 404

<210> 21185
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 21185

tgttttatga tgaatcaaca atgaaacaaa gggggggnga tgattacaan gangacaaca 60
 caagaagaag acaaagggga ngaacaaaaa gctcanaaga tcaaagaaca actcaaggga 120
 atcaagaaca actcaagagt ncaagaatca agatgaattc aagactcaag aagaaagtct 180
 acaatcaaga atcaagattc aagattcaag atctcaagaa tcaagatcaa gattcaagac 240
 tcaagattca agaatgaaga aaatactcaa tcaagataag tattacaaag gtttctcaaa 300
 actatgaata gcacatgagt nnttgacaaa acctttacca aagagttttt actctctggt 360
 aatcgattac catattggtg taatcgatta ccagtagcaa aatgag 406

<210> 21186
 <211> 144
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21186

ctnntgaatg ggctctattc aatgnnngag ttgacaagaa aatatcttct ttatctgtta 60
 tcatacacat gccacagtg gccaaagatg cagtgggtag atctctgann aanmcactc 120
 atgataggat acctcnncaa agtg 144

<210> 21187
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21187

atttngtgat ttatatcttg natcggatta atcaattact gtcttatcat aatcaattac 60
 atagttgttt ttgagacaat gacagattta ttcaggagtc tctactttaa ttgattacca 120
 tgtgatataa tcgattactt ctctttctgt aagtgattca gatgtgaaca aagacacttt 180
 aatcgattac tttgagtatc taatcgatta cattgttctt gagttgtntc cgggggttng 240
 gaaaaacact ttaaacgatt aaaaagataa tctaactgat tacttcattg aattagtcaa 300
 ttacttcttc aattatgcaa ggttttgagg acaggattga tcgggtggta tctatctata 360

ctct

364

<210> 21188
<211> 131
<212> DNA
<213> Glycine max

<400> 21188

tctataatac tcagcttgaa atcgattctt gagaggagtt gcattacttc tttattgcct 60
ctgcatgtac tagaatctgg ccttggttg aagctattgc atgttttagga acttctagag 120
agagaaacgt c 131

<210> 21189
<211> 208
<212> DNA
<213> Glycine max

<400> 21189

ttcttggtgc cttggatctt cttcatcaat ggagtcattt gattcttgaa gatcaatggc 60
aacagaatgg agaaggagga aaggtgattg gaaacgccac ttcaaggaga agatgagtca 120
agaacaagct caccatcata ggaagtcatt gataagagtt tgaaggtagg agaaaatgag 180
tggatggaga gagagagggg gggggggg 208

<210> 21190
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21190

tccgttcccg agagcatctc ttatttaagc atttcagcct ttgttttcgt gtagcttagg 60
aaaaacgtca tttcttcttc tttctttctt ccaaagccat ttctaaagtt ccaagaactt 120
tctccatcac ccacaaccac cattagccac cacaacccat cgttggtctc cacatcgaga 180
ggaacccttc aaccgaagcg gaatcttcca acttggttg cggtttcggg agagaacgaa 240
accctaattc gacctttcat tttctttcga ggtaaccatg gttctacgct tgtttcttgt 300
tagtttcac tttgttttg atcttttctg actttggaac cgccattgta tgtcttatgc 360
ttcctttgaa aaacttttga gaaagagact ntgtaaactg taccctttca tgaaatgc 420

gttatttttcg taacctacac tgaaccccg .tcaca

455

<210> 21191
<211> 371
<212> DNA
<213> Glycine max

<400> 21191

tttctttttt gttcaattat gagggggtcg atatgatg cgcctgaatc ggacatccga 60
gtgaaagggt atgaccattt caattttctcg agagcttccg ttgttcaatt tcgagcgtct 120
cgatatgtga tgtccctgaa tcggacctcc gtgtgataac ttatgaccat ttgaatgtct 180
cgagagcttc cgctgggtcaa tttcgagcat ctcaatatat gatgtgcctg aatcaaacad 240
ctgagagaaa agtatgacaa tctcaatttc tcaagagctt ccgttggttca attccgagcg 300
tctcgatatg tgggtgtgcct gaatctgata tccgagtgat aagttatgac aattttaatt 360
tctccagagc t 371

<210> 21192
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21192

ntcgagaatn taaaattgtc ataacttttc tctctgatgt ccgattcatg cacatcagat 60
atctagacgc tcgagattga acaatggaag ctctcgagaa tttaaaattg tcataacttt 120
tcactcggat gtccgattca ggaacatcag atatctagac gtcgaaatt aaacaacgga 180
acctctcgag aaattcaatt ggtcataact nttcactcgt atgtccgatt caggcgcata 240
atatattgag aagctcgaaa ttgaacaacg gaagctctcg agaaatttaa atgatacata 300
catttcactc ggatgtccaa ttcaggcgca tcatatatcg agacgctcgt aattgaacaa 360
tggaagctct ggagaattta aattgtcata acttttcaat cggatgtccg attc 414

<210> 21193
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21193

tgctttttgc atgagaacaa ttctcaagtt gtggtaccaa tcatcataat tggctccgac 60
tagtttttca gattcaagaa taccacgaag cgataagcga tagagaagat atactgttga 120
ttaagcacac aacaaaatat aattatgtca gagcataatt tttcaaacct tttaaaaaat 180
ataaaaaatat taatgatatt tctaataata atattgaaat gtaagagata cttatttctt 240
ttaagtggat catataaagc ctcttacaaa ttatgagtga gccacttggg tatcaagttg 300
tttctcatat acattataag acaatgtatc atatacattt tcanatcaaa ataaaaaata 360
ccatatacaca ta 372

<210> 21194
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21194

ctanatgggt attgaatatg aattttatct tctgcagctn gcagtgttat gttatgtggt 60
ttgtatttat tctatttaga tttgtttttc tatgttttgc ttttccgtaa tatctttag 120
tggttaaagc gtgtatatca gagaaatata tatgggatct atgatgggtn tcagagactg 180
cattatctat ctgtagtttc ttcaaaggag ttgaagataa tcgtaattga ctgagatctt 240
gcttggcttg tagttttcgt cgattccatt ttgatttttg ggggagaaaa ctatgcgttt 300
tggttcacac ttgttggcaa aacatttggt taacaatcta ctatttcttc aagggtgcttc 360
atataatggt attgcagtct tgaattgagt ctcttgagtt atcttgngaa atgatatttt 420
gaatacaatt gtaaatTTTg tgatgcanat aactaaataa tctgatg 467

<210> 21195
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21195

agcttgtctc ctctgagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120

ggaagcggta tgtgccggct agttactcaa aggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatgggt ttgactaatg 300
 atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatntg cttcaciaag 360
 caatccaagt ggagcaacaa tt 382

<210> 21196
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21196

tactcaagct tgaatcgaca tccgtgtgan aaggatgac gatttgaata tctttagatc 60
 ttccgttgtt caatttcgag cttctcgaca tattatgcac ccgaatcgga tatecttgtg 120
 aaaagttatg actatttgaa ttttccgaga atttccgatg ttttaatttcg agcgtatcga 180
 tatattataa gcttgaatcg gacatccgtg tgaaaattta tgaccatttg aattttctcaa 240
 gagcttccgt tgttcaattt cgagcttctc gatatgtgat ttgcctgaat cggacatccg 300
 cgtgaaaagt tataactaatt gaatttcgca agagcttccg ttgttcaatt ttgagcgtct 360
 cgatatgtga attgcctgaa tcggacatgc gtgtgaaaag tata 404

<210> 21197
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21197

agcttcttgg attataaaca tgggaccaac tcattttatt tcaaaaaaga agtcgtatct 60
 agtcaaggtc ttagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
 gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcagggg cggagtangt 180
 gtctgccatt gccttggcct tggctaacaa tcggggaagt tcttgactcc cgttcaagggt 240
 aagagcaaac cgatccatcc acatggttgc ctcttgggtg aaagagtcga tcacccttcc 300
 tctagcctct ttttccgcgt atacttgggc atattcgtcc gcaatcctat gctcgtgggc 360

cgcggttaga cctaactctt cttggtactt ggcgatgata gct

403

<210> 21198
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21198

ctcagcttta ctatgtggcg ggcggttttc ttactttctt gttcctcgtg agctctgacc 60
actgtcttct tcccgcgatg cttcttttat gtccgcctga gtgggcttat agcctaaacc 120
atacttccca cgattccctt gggtttttat cagactagtt atgccgccat tgtctttgcc 180
taaaccatc ccggcttcat aaccgttccc caacataact cgggccatca ttaccgccgc 240
atcggacaga caagtttgcc caaagaggga gtccacggag gaaatgctga ccacctcaaa 300
agactggaaa gcggtttcta acgattcttc tgcggcttcc acataaggca tggaggatgg 360
gcagcttacc aagatatctt cctcgctga cacgatgacc aagtgccct cactacgaa 420
tntcagctnt tgggtggagt tagaaggcac aactcccact gagtggat 468

<210> 21199
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21199

agcttgctta ataattnttc aataaaatat taattgttat tcaaaaaaat tattagacaa 60
aaaaaaactt tattttaaaa ttcgttntag acctttaaat gtgttgggct gccctgcata 120
ggtttaagag tggttggaag aaaaaggggg acaatgacaa actttaatag tgaaaaaagg 180
aaggaaatgt aagggaaaaa ggaagagaaa catcgaggag aagaagaaaa aaataaggta 240
acattgtcat gtactcgaca aaagagaatg catacatact ataagtaatg agtntttttt 300
ttttctcttt atttattttt atcttanata tcaatttgat caacacgatt atgtgataat 360
ctcttctgat cgacagagtc ttgaggtcaa tatttgacct atgctaaaat 410

<210> 21200
<211> 304

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21200

acaattctag gcttgaaaga tgttccaatg actctntcgt agcttccaca taggggtgtag 60
 aggatggaca actcactagt atcttttctt cccctaacac tataaccagt tgctcttccg 120
 ccataaactt caatntctag tgaaacattg atgggaccac cccaacagaa tggatccaag 180
 gccgacctag caggcaactn taggcgggggt ttatgttcat taattggaag gttatctggc 240
 acgtttgtgc cccgatttga attgagagat cgatctctcc tctcgcatac tgttggtctac 300
 ... catc 304

<210> 21201
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21201

agcttcttgc gttccgctct tgggtgctcag aanatcccaa aaacaaatcc ctcttattac 60
 tagctatctt gaattcttta gttcctgaat atacaacctt caaattgttg ctggttcccc 120
 tctttgagaa tgaggaggat cttcatagga cttcatccag ctgatgtttg tcngcanttt 180
 catcatccac cacccttttc ttctgtgcct tctcacgttc attggtgtta aacctatatt 240
 tatgccttct tcccttcatg tcttggttga tcacaacttt agctgaatct cccatcttca 300
 gcatagtga atctcctatc ttattgtcac atgccacatt atgatggcct gtatctctta 360
 tgatcgtatg ttccactggc tcaccttcac aatgcat 397

<210> 21202
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21202

agcatgcgtt gatgttgaat atcttatagc acttagcatc aggtggagtt gataacaaag 60
 ctgccaaaagc tgcaacatac cttattatta attggagcat gtgttgatgt tgaagaacgt 120

aaagcactta gcttcaggtg gagttgataa cgaagttgcc atagatgcaa cattaaattc 180
 tgatgccgtt tgatttagtt cagtctctac aagaaattga attntttgct ccactgttgc 240
 catttcttga aaacattntt cctcggttgt tgccatttct ttgtcgcatt nttcttctat 300
 ctctttgaat ttatcattta attctttcac cttnttcaac atgtcttnt tgcattnttg 360
 aaattntatt tatttttcaa gagagtangt gtcgtagttn ttctgtgaca atgtac 416

<210> 21203
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21203

agcttgtatg cttgtnttct accttcttct catagtagaa caccggtaac gtgtctacta 60
 tcattgctat catctccctc tccatcattg ggggcgtac ttgagctgcc agatcccttc 120
 atctttgggc atattctttg aaagattcat gtccttctt acacatgttc tatagctaca 180
 ttctatccgg aaccatataa gaattgtact gatactgcct aatgaaggca accattaggt 240
 cttccaaga atggactcgg gaaggtttca tattagtata ccaggtgacg acttccctag 300
 taagactttc ctagaagaga tgcatacaacc aattttcatt ttttgagtat gccctatatt 360
 tcctgctata caccttcagg tgattcttgg ggcaagtagt cccattgtat ttatcga 417

<210> 21204
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 21204

tggagatgat gcttcaatgg aggataagaa agagagaagg aggtgtcact gttattgaag 60
 gtataaaaga gggagagaag tggaactttg aagtgtgtct cataagactt tcattcatca 120
 aagttacaac aagtgttaca catgcttcta tttatagact aagtagcttc cttgagaagc 180
 gttcttgaca aaacttactt gagaagctac tttgagaaaa cttccttgag aagctagagc 240
 ttagctacac acacccctgt cataactaag ctacgtcct tgagaagctt ccttaagaag 300
 attcctaaag aagctagagc ttatctacac atacctctct aatagctaag ctacactact 360
 tgagatgaga agctggatct tagctcacac ccctaataa gctaactcac cccatgcgaa 420

aacatg

426

<210> 21205
<211> 355
<212> DNA
<213> Glycine max

<400> 21205

ttcttgtttt attttaaaac caaggccacc atcttttgtg caatttgatt gcatgttgac 60
tttggtagca tgaacatct catcacataa gaaggaatag cttgcaccac tgactttatt 120
aggccactca tcttgctttt gaaaacgtct tctccttcca acctttcagc ttcttccaaa 180
ctctatctct agcaaaatta aacacttgag tctttgatct ccccaaatg gttggaagac 240
ccaaataatt tacatgtctc tccactgcct ttaccccata acttatcaag ttcatacaatt 300
ctggtactag aacacatttg gatacaagag agctaagatt tctctagatt gatcc 355

<210> 21206
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21206

tatactcnct ccataccata ataatagtcg tgtaagaaaa taattattgt cccaaaataa 60
ttgtcattnt agctcttcaa tataatatta attgtttttt ttcacttata tcccttataa 120
tattaatgat atggactaca aaaactaaaa atgaattaat gatgataagg ttaattttgt 180
aaaattatta ttctttttca tttgcttatt agttcttctt ggtctgagta aacaaactgg 240
tatgggacga caattataat gagatgaagg gagtataaac tctcatccgt ggtgcataca 300
gacacacaat ttcagttcaa tgcctttgtt tctcttttct taagatggta ttggagccta 360
tcctaaatct attaccgata acctaccata ttatccatgc accanacca aaaagtactg 420
ggcgtg 426

<210> 21207
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21207

agctnttgta gattctgggt gntctttttac ttccatagc aaaagtgttc agccccaaca 60
taattgtttt cgaagtaaca taataactaa acctaaaact atgtttggag acataataac 120
caatgacaca gaaacaaaaa attttactat ccaattatct ataaactgtg atatctttga 180
caacaaaatc ttataaata aagcagatgt tgtagattta caaccagcca aagaaaaaat 240
gattntagga ctcaatttta ttgtacatga taatagatca atcactatta ctaaggatta 300
tntattgac tctacaaatt cacagatgtc accaataata gatgaactca catcagagtt 360
gtgaacaaag catggtggta cccctattaa tgtaataat aaatgccctt gtgacac 417

<210> 21208
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21208

tagaaaatnt atttcacgag aacatatnag taaatttaatt atttttatgc ttacatagat 60
aatataatac tactatacga ctattaaagg agtgtgtgta agaaaataaa taaattaatg 120
tgcacaagag ttgaacacaa gatgttttta ttgagggat tcaactttac tagttgactn 180
taatcgatcat tgttgcccttg tttagagttta gatgcttatg tgaggaaatg ggagatattt 240
tattttattta atttaagata aagtctttcc gttgtttact cttgaatctt gatcaatgat 300
aaagaacaaa ttgggaaatt cgaagaanaa gtacaaaaa cacctttntt tcgtgtattg 360
gattatgatt taaaaaaatc tggtaataata atgtaataatt taattaagaa ttttaggaat 420
ttttttanaa agttaacaaa atgaattnt ataaactntaa aaaaatcttt agatattaaa 480
a 481

<210> 21209
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21209

attgncttat catatgaaaa ttatatagtg attacattnt acacatatat actataataa 60

tgagtatant tttaaaaata aagaatctag gttcatgaat cgcaaacaga ttcctaaagt 120
 atacttaagt aaatatatat catatacaaa attataatct aaaatgagtt gtcgtagttg 180
 tatcattaaa taaatttata aattttatact acaaatcagg atcttatcta tatattccaa 240
 acatgaatga atatacacta attatattga aaatgcaaac tacaaggcat tcaaagcaca 300
 aattaattca atattttatat cacaatacac caaaattcaa ccaaaaatta ctgcataata 360
 atttcaata 369

<210> 21210
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 21210

catgaaaaga cctatgccct ttcttttaac ttctccaaat ggggagtctc aacagccttt 60
 tgctttcccg gagagtagta gagtcactct gaccttcctt ctctggcac ataatccttg 120
 ggcttgctcag ctcatcacca ctcttgggga gtggacctga gcaaatatca atctttccct 180
 tgcttgagaa tcctcatgga taccaagctc taagttctta gagaaagcct catagaactt 240
 ggttgaatcc tccttgggtct ctgtcattac atagaacagc tcaatgcact tcttgaccaa 300
 gctcttacgg atgaccttca agatcttgat ctggtgcaac atttcatctt gaaatgctga 360
 gtgggagatc ttcagaatca acaatacccc ttgac 395

<210> 21211
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21211

ttcngttata tttttgaagt caaaatgcaa ttccaaagca gtatcattta aaatatttaa 60
 caaaaaatat tattaaatga gctaattaag atattaatat aaaataataa tgaaaaaatc 120
 ttgctttcta attttacgac aatttaaaaa attataataa gtaaaatata agtcgcatat 180
 ataatttaat aaactattaa tttggccttt ntaaatattt atttgacatt gattntgctt 240
 ttaattttta gtgagatgga gtgagtcctt taaacattga aaagtattaa aatctttttg 300

tgatatggag taagtctttt attntaatta tgtaagtttg ctccttacat ataataaaaa 360
 tggtttttct catatatattt ttttatgaaa tgcgagatga gtg 403

<210> 21212
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 21212

tatataaacac tcaagcttgt gggaagacac tgatcgaatc atcatcatca ccactcttga 60
 tacagctctc tctagacgcy tactttgcac gcttccttcc gcacagctat tcttgcaactg 120
 cggtcggttg ctctctatgc tctcgggttg ctctctcttc tttacctcct acggtgcttg 180
 atatacttaa agatggtaaa ggcggagttc ttgcatcccg tatgggttaa ctacctattc 240
 gctccgtgga tctcgtggat tctattgctt caatcggagc cattcgtggc gccacaaca 300
 gcaacctact tggttctgtg gaggggtgtc acggtgccgg tggtagtgct ggacgtgaag 360
 atctac 366

<210> 21213
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21213

atctnatgta tgaagagttc aaaatgagta tgatgggaga attgaagtgc ttccttggac 60
 tttaaatcaa gcaagcggac gaaggaatat gcatacatca aaccatgtag tgaaaaaact 120
 tctgaagaag ttcaagggtg acgatgcaaa gcatatgaaa acccccatgc atccaacct 180
 tgtacttgga ctggatgatg aatcaacgaa ggtggatgaa aatacatgca gaggaatat 240
 gatattctct ttgcatctca ctgcgtccag ccttaacatt atgttcagtg tatgtctcta 300
 tgtagattc caaaaggaac caaggaaaat tcatttatat gatgttaaac gcatatttag 360
 atatttgatt gaaacttcta accttggctt ttgctttaag agagaaatcg aatac 415

<210> 21214
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21214

tagatataaa cattgaacag atgataataa cctcaaata atttataaat gtttacatca 60
agtgtcagc agaaattccc aacaaaggat tttagccctc cattacaagg gagtagcttt 120
tagaaatatg agaagggttt tagagaaatt accagatgac aaagtagtgg ggatgtctcc 180
tccacttcta agaacctaga aaataaatct aacacctaga atctacctaa aagttaggac 240
ctttgtctcc ttgtcagct tttcctctgt tctttgcaca caattcatag tcaattcaaa 300
cctctttcac attgtcatag tctcttcacg ctttctcttt ntttctgtgc aaatcaggct 360
taaaaatggc tttctgacct cgaaggcgcg cttagcgcca tctctgcgct tagcgcgagt 420
aagtgatatt 430

<210> 21215
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21215

caattgactg tgtgancttt ganaccacct agggaaaacgc gaggcttggc agccatttgt 60
ttgcgacttt tatggaaaac cgcgaggggc tatgggggat ttcgccgcct tcgtacagcc 120
ggagagggcc aagaatgagc acaaaaggcg aatatgaaga tagccacctt ccgcaagtgc 180
ttccagatcg aaccgtggga agaaagaacc tctgaaagaa agggagacat gcaaccaact 240
aaacagtaca caagcaagcc gagaaaggca cctatcatga taatcataag cctagtcggg 300
aaaacatgag cgatccaccg cagcttgaat ccacatcaga gcaaattgaa acaacgactg 360
gattgtgaat gtcgcctgac atatcgcatg gagacggctg agtcatatcc tcacctcgga 420
aattttgaat gacatcg 437

<210> 21216
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21216

ttcttttttat taaaaatcaa taaaaaaata ctaagaatat atattagtgt acttagtggt 60
 gcgttgattt tatacaaata aatcatagaa attcaaaatt atttattcca gcattatcca 120
 gctcacctta naacgaatta atgataatat aatttattaa aaatgaatac ttataacggt 180
 ataagatggt tattcaacta attaaaaata acaagtcaat aaaaataata acaatagatt 240
 gggtctacca gatcggcgtc acctccgccc aanaatgtcg atcccacgca atctgcaaca 300
 attacaatgg ttcatgtata gatgttggtc tcaacttttc aacaaagatg agctcat 357

<210> 21217
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21217

ctntanatga gcttcacctt tctcgcgact atcatgttgt ctgtctcgtg tgcttttagt 60
 ttatcctana tttatcaacg attagtcaac acaaagttac catctcaact tcaaaatatt 120
 ttctgcttta aaaacacatc aaaatatatg ctactttaga aaatcaagat caattatatt 180
 tattttaata atatttttgt ttattttctt agtatagact atatatatct ttaatcagaa 240
 cattatgaag tatggaggat aaaatttttag cnttgaatct ttaacacatt tacatatcca 300
 aaaatatatt cattattggt atcttatgtg aaatatnta ttaatttaca atattatact 360
 gtaactcctt taatgaaaat attntaataa aagaacatga gaccagctta ttaaaaatta 420
 aaaaatggaa acttatcaca cttaaccaag ctagtcaaaa caaatatta 469

<210> 21218
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21218

agctntcgta tgtgaaatca tgtgcagcca tttcccttag agtgctctca cagggtggag 60
 gttgtgccat gttctcagaa tggtcaaaat tataatgctc aaaatcacca ataacagaat 120
 gctcangatg ctcaaaaagg actaaatgat gtctaactaa tcaatgaaat gtctatcta 180
 tctcangatc aaagggttgt aagttagatg gattgcctct agtcatacac tatattcagc 240

atgcacaact agttgccttc ttatgcaagt aacaatgtag gtttgaacta cggtaccat 300
 taaatgatat ccaaagact tgaaattntg tgagcaacct tataaaatga tgagaagata 360
 gcacanaaaa tttcaaacia aaattcaaag tctaactata gaagctaana atgataagtt 420
 aag 423

<210> 21219
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21219

ccttccctgg ttagtgtnnt ggtttggtt attgggtggtg tttggaattg gatgatttag 60
 ggggtggcctt tatggatgat tgagtgttct tggttgatag ggtgggtgggt aatgaaaagg 120
 gttaatatgg gctgagtatt gatattgttg agctgggtgag aaatttggtcc atgtaggat 180
 agtagtcata acatgggttc ctcttccctt ctcttctctt ccatttgccc caggcttctt 240
 attcatcaaa gcaggataat caaattttcc tctcttcaaa cccacttcga tcttttcacc 300
 ggtgaaaact aaatcagcaa agcttgaagg tgtgtaaccc accatcttct catagtagaa 360
 caccagtaac gtgttcaact tcattgntat catctcttct ttcgtcatnt ggggcgctac 420
 ttgagttgcc agatccctcc acctttgggc atattctttg aaagattc 468

<210> 21220
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21220

agcttggttcg tatttgagtc cacggaggaa atgcttacca cctcaaaaga ctggaaagcg 60
 gtttctaattg actcctctgc ggcttccaca taaggcatag aggatgggca gctcaccaag 120
 atgtcttctt cgctgatac gatgaccaga tgcccttcca ctacgaattt caacttttgg 180
 tggagtgtag aggaacaac cccactgag tggatccacg ggcgccccaa cagacagctg 240
 taggggggggt taatatccat tatttggaag gtgacttgac aggtgtgagg gcctatctgt 300
 actgggagat cgatctctcc cctaactctt cggcgggtgc cgtcgaaggc acgaaccacc 360

attgaactcg gctntaagtg ggaagcattg aatggtaatt tctccaaagt gctctt 416

<210> 21221
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21221

cttcgattca atctatgtac ccgtagtggg ccacattggg tntcttgcta ttttattctc 60
gtnttggtta ctttgtatac cccctcttga cgtgcttgag ccattntact taagtcattt 120
ctcgcttaac ttanaaataa aataaatttc caccgaactt ttgaattgta ttatccatta 180
acttcggtta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
agaggtaaaa aataatataa taatcaaaaa gacatcttta gtaaaataaa gcgaanaatc 300
aatcgggcgt tttctctttg ggatttctca ttcttaatcg aattgattaa taactaaagt 360
gaaactaaag gctaaaatca attcgcctag tcaagctcgt ccataanaat aggcttttga 420
agtttgtcat ttcattntct cactaagtaa aatggatca 459

<210> 21222
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21222

agcttattct ggctgaatgc accngnngng cttagcgcac tgatctcgtg cttagcacgt 60
ggctttgatg ttgatgctct gccagattct ctttgtgct aagcgtgctg aagctgcgct 120
taacggtgga attagggtag caattaaagc tacatcttga aagggtacca attcacaccc 180
cctcttaatt tgtgagttcc atcatctttt tcaattggta tcagagctac atcttgtaag 240
ttactcaaga tcacaatttt tctaaagacg ggctccaaac aaacaatctt taaatcaacc 300
tcctttgttt gagggagaac attnttcctt tcggcaaaag agaataaaaa tctttattta 360
attagttgat ctcgatgcat ggaatgccat tgtaaaggg tcctttatac c 411

<210> 21223
<211> 410
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21223

aaaacttaat ctgcagatcc ctcttgtaaa gctaagttnt aattctgctt cattcaagtt 60
ctaaggcaac aatacatttc ccaatgttaa aatcacctaa ctaggcacac aaatgggtga 120
ttagaccaag agaatacaaa atttaagcac tgaaagaagc attgaacaca agatacaaaa 180
tcaattagat atgaaataat tgcacagct gttcattaga aatccccaac aagggtgttt 240
agccagccat tacagacgaa accctaacia taataagctt acaaaaccta agcatctctg 300
caaaagttgt tctcttgct gcctctagag ctcttttccc gaaataagca ttgtggcgtg 360
atgtggaata ttgtgcctg gccttcttgt tgtgtttta ccctaattct 410

<210> 21224

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21224

agcttggttaa gttcccagct tggacaagtg ttgccagac tgtttctgct aagttgtcca 60
aggaggacat attttttatt ttacaggtga agtttgacat gtcaagtga taaaattcct 120
atatttgata attctgtcct tttctgatcg ttggaaaacg cattaaagac atgtgtttcg 180
tttgtctttt tccgcaggtg agtgcagcac acacacgtta ctcttgctta catgtcactc 240
gaggagtgga cacatattgg agacgcggtg tgtggtgcaa attttcaggg tgtcatttca 300
gctcccacca attaccanag agtcgtacct ccacttaaata agagtgtaca tttgggtttt 360
gatcaccacc atttntaat tctgtctntg aaatc 395

<210> 21225

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21225

tgtgagacac tagannataa agtagaaacc atgtntaca cactatataa atacatagta 60
tagtaatata aagcttgta atatagctct ctttgctta aaacttattt gtctttgatt 120

aaatntagac ttagcctata gaacttgaga gtgtaaatth aagcatagac ttagtctatg 180
 cttaaatttt cattgtggct gaacaactga naatatgtca caatgaaaat ttaagcatag 240
 tggtgtaaat ttaagcatag acttagtcga tgcattgatcc tttntttctc tgaataacct 300
 tagcataatg tttaatagca cattaatctg tggttaagctg cttttttctt ataacatttg 360
 aagggtctgg ctacattgag cacataaata tactgttgta gtagacttca cctcactgng 420
 aagaccccat aatctacgca naaataagtn tgattctgca tttacta 467

<210> 21226
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21226

agcttgtatc gttcattcgt gtgaaaagtt atgaccattt gaatttctca agagcttccg 60
 ttgttcaatt tcgacacctc cgacatatta tgcacccgaa tcggacatct gtgtgaaaag 120
 tcatgatcat ttgaatttct cgagagtttc cgatgtttta tttcgagcgt atcgatatat 180
 tataaccctg aatcggacct cagtctgaaa agttatgacc atttgaattt gacgagagct 240
 tccgttggtc aatttcgaat atcactgtat gtgatgcgcc taaattggac attcgagtta 300
 aatgttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360
 atgtgattcg cctgaatcgg acatnccgtg tgaaaagtat aaccattnga atttctc 417

<210> 21227
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21227

cgtctcagcg tctatgcgag acaganacca acatgctagc tatttcttca agtaccaaga 60
 agagttgggt ctagccacgg cccacgagca tagaatcgcg gatgagtatg cccaagtata 120
 tgcggaaaaa gaggttagag gaagggtgat cgactcttta caccaagagg caaccatgtg 180
 gatggatcgg tttgctctta ctttgaacgg gagtcaagaa cttccccgat tattagccaa 240
 ggccaaggcg atggcagaca cctactccgc ccccgaagag attcatgggc ttctcggcta 300

ttgtcagcat atgatagact taatggccca cataattaga aatcgttagg aaacttgtat 360
 ggtctctcag accttgacta gatatgattt cttntttga aataaaatga gttgggccca 420
 tgtttctact ccaaaaagct tgtgcanatc anacactcc tacatctcat ctctagcatg 480
 cattttctt 489

<210> 21228
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21228

ttcttctatt tcaataattt agattcattt attgtttaca aattaaacta cgttttcata 60
 atgtagtact ttatactttt cacacaaatt atttttaatt tataattgat tttattattt 120
 aaattattag tacatttatg tattgtaaaa attaatcaat taaaaattag tgcatttttt 180
 tcacacatta taattgattg ttttttgcac ttagttctca ttggcaaagc tttctaattg 240
 gaaattgcaa attttttaggc gtttttgtgc tttctaattg gaacatttta tgctttctac 300
 actcatcatg tataaaactnt tttaccacca aaagttgtac tccaataaca ttttccaatt 360
 ntaaccattc gaatacattc aagtgggtgc aattcttat 399

<210> 21229
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21229

tgatcattgg gccaaattca caagtcttag gtaggatgct ttggttttat ttgaacctct 60
 taattgacct gggttcgctt ttgggtaatt ttagactatt ggcaagtga ccaaattatc 120
 acaagtagta aagttaaagt agaagtctga gtgtcgagtc cacagaaact ttatttgtac 180
 ttaggtatgt gaatatTTaa ttagtaaatt aatttaaaga aattgatttg aaaaggttgt 240
 gagaaaacag taaaataaat tggcagaaaa ttaaaataaa caaggaaaga aattaaacat 300
 gaatttaaatt taattaatta aaaacagaat agatgagaaa aaccaatatt atagaagtta 360
 aattcagaag atgagaaagt tggggactta gcctaagaga gctactcttg atataatatt 420

aatgaatttt ctctaattat gggtattcca attntacacc tacacctact catatactct 480

a

481

<210> 21230
<211> 374
<212> DNA
<213> Glycine max

<400> 21230

atcttttttt gtctaagacg atgcattcaa agaagtcaac tacaacgtca gtcagaatca 60
tcaaggattc tatcaaggag gtctgccaag gtactatcaa caacgaaatt tctcaciaag 120
ccaatgttgg agatcccatc caggggaataa cttcaacaaa aaccaatgat gttcatccaa 180
tagacctccc acacaaggcc caaatctata tgagagaacc accaagttgg aagacacgct 240
gacacagttc atgcaagttt ccctgtcaat ccaaaagagc actaagttag ccatcaagaa 300
tttggagggtg tatgtggggc aattatctaa acaactgact gaaaggccca ctgtaacctt 360
tggttgccaac actg 374

<210> 21231
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21231

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caaaacattg taatcgatta cagctttttg aaaataattg gaacgttgca aattcaattt 120
gaaaactttt tcaaaacaat ttggtacta gtaatcgatt acaacaatct ggtaatcgat 180
tactagagag taaaaactct ctggtaaaag gttttgtcaa aaactcatgt gctattcaaa 240
gttttgaaaa actttgtaat acttatcttg attgagtctt ctcttcattc ttgaatcttg 300
agtcttgaat cttgatcttg attcttgaga tcttgaacct tgaatcttga ttcttgtctc 360
tagactttct tcttgagtct tgaa 384

<210> 21232
<211> 385
<212> DNA

<213> Glycine max

<400> 21232

attcttttcc aaacaaatat atattgaagc ggtggacacg acaagcaaga tgtgatacgt 60
 acaatgataa tagtgggagg caaattgatg ttgacccatg gttggagagt tcaaategat 120
 ataagcaatt atgtccaatg cttatgagat tgtccgatga ggcattctgac tatccggaag 180
 catgttcttt agtttatcaa ggggtgttag agcttagtaa gaaagtggct gaaattcgat 240
 tgaaccaaca accacatggt cctcgtgatt ccacacgtga agccacaagg tatgctatgg 300
 agcctttggc atccaaagga attggatcta agaagagaga tggtaaaagg atgaataata 360
 taaccctctg ggaattggac tgata 385

<210> 21233

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21233

tgctagtccc tacaatatgaa cactcgcgta ggagaggctg ttatatggct tagtctgttc 60
 gcattttggt gctaattgatg aagatacatc ctacctttct ttgtcatgac cttttgtgag 120
 tgagctttgg caatgactta nttctatgta taaagtggcg ctagatcttt cttctccgag 180
 tgctctctta tatgtataca attgggggtt tagtaagcaa gtatctgaaa gatgcggggtg 240
 tcaggatcat aaatgatgct tgcgttatct ggattcatat gaataatct catttagaga 300
 atgtgaatat acccatttgc tcgttaaaat acaacattat ggcatactta gccttgacgt 360
 aaaggttctc tagactaact atgggtttcta gtgtagagga gttctctatt 410

<210> 21234

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21234

agcttgtcta attaacctga aattgagaga naatgattat taaacacaca aaatggaagt 60
 actaagtatt tatcacctat acttaataga aaatacttat aacactacaa aataaccata 120

aattggaaga gtttgataca atttatacaa gttttatgca caaaagttag tcgtattcac 180
 cgactaatac ataaactccc tgttttaatc gatttccagg ctattcataa tcgattacac 240
 aagtcttttg agaagcttta agagagatac tcattttgat taccgggtcat ccgtaatcga 300
 ttacacaatt cagttaagac catgtctagt ttttaggagt ctctattnta attgggttacc 360
 aggtgatcgt aatcgattac ttcattcttg aaagtgttc 399

<210> 21235
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21235

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 agccccctacc ttcgaggggc aactcccacc ttatgacgat tatcccgtgc aagacgatga 120
 ggaaggagat acccatctcg gccccctgct ccacctcaaa gatccacccc cccatgaact 180
 accccaacca aacatagtct gccacgttcc atcttcaccc acaccgtaa tcgaatccat 240
 tcccttcgca gaggataagg gaaagattga tgcacttgag gagaggctga tagcggtaga 300
 tggccttggc aattacccat tctcggatct agcgaaccta tgtctcgtgc ccaacatcgn 360
 tatccctccc aagttcaaag taccggactt tgataagtac aaagggacga catcgtccga 420
 aaggcac 428

<210> 21236
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21236

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 aatgtatgta tacatgattt tgatgatgtc aaagaagaat ctaacaaggc tacttcaa 120
 gataagcatt tgcttcaaga ataattcaag attgcttcaa caaacaatc cttgtttcaa 180
 gattcactaa agaccaagcc ttgccttaaa acaaagtgtt ttcaagacat gcaaggctct 240
 ggtaatcgat taccaggaag tgtaatcgat taccgaaga cagggttgag aaatagctgt 300

tgaaaaaggt tttgaatttg aattntcaac atgtaatcga ttaccatattg tctgtaatcg 360
attaccagca acgaaacttt ggaaattcan attcaaaagt cattaaccct tc 412

<210> 21237
<211> 227
<212> DNA
<213> Glycine max

<400> 21237

tacatttttag atgttgacaa ggcaacctcg atatggcgct gaacatcggt gtacataata 60
tataaagtag agaaggccta ttttctgtct attagaaaca ttagacaaac ccctagcaaa 120
caacgaatgg acggatgaga cctgctactt cagctcatat tgagaaccgc atggccgtat 180
catggtgtat gagaagagac aatttatcgt ccctaattctc atacttt 227

<210> 21238
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21238

agcttattgt atnnataagn ctcatccaac aaatgtttgt tgtctctaaa cagatatatt 60
tcttcacttg agcttgcgct tgaagagtgt ggccgttaaa gcatttaatt cttgcattaa 120
atgcacatac tccttcattg tgaaaaacca ttcttatgag ctattgtgtt tatcactcaa 180
gtagaaaacc acttgcttta agtcagagca ggtatgtcac caaaagtgag tgtcttttga 240
tggtgttcga caactttcag atcttgaact tcatgtattc ttcatagaat tcgatagatt 300
ctaggagaat gtctttataa aacaaatctc atgacatgta tcttctagcg tctaataata 360
cagatgtaga tgtatg 376

<210> 21239
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21239

ntaggaataa cattaagaga accatgcgtg ngttataatt cattatccac atgttcaagc 60

ctatcatgtc acatatcaga acattcaacg ttgcaacaa aagaagaaat gctagatatt 120
 ttattaatag aaataagcat aataattaac ctaaacaatcc catcacgaat atagccttta 180
 ccaataaaaa cactatgtct agcaataaca actctatttg actcanaaac atccttgtac 240
 ccttggtgga ctaacaaaga agtaattaga aatgtgatag actctatcta aaataggaaa 300
 attccctaaa gatagctcta gcttcacttg accttctctt aacacatgtg tcatactccc 360
 attccccatg ctcaaatat gtgtgcttga ttcattgatat anagaanaca attgtgtatc 420
 atcacacaca tgaacattag ccgcggagtc cataatccaa tc 462

<210> 21240
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21240

ttctttgttt atgagaaata catatattca gagatgaata tcttgacctt caacattagg 60
 gggctaggta gaggccttaa atgggcttct attangaatt tgggtggataa atataacata 120
 gatcttctgt gtctgcaaga aactaaaaag gatgtgttag acaaagcttc gtgtcaattc 180
 ctatgggggc aatctgattt agactgggaa tggcagcctg ccttanatgc tgcagggggt 240
 ctgttatgta tttgggacaa caacaaattc catgttgatt taaggatttc agataaagac 300
 ttcattatgc tgggtggaat atggctacct caaatgcaaa gagttgcagt cattaatata 360
 tatgcccctt gtgatcatgc tggg 384

<210> 21241
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21241

ctaattntaa tatgatacat tattgaaagt tttagctntt aaatagtcatt tattataatt 60
 attgttttat ataataatgt aaaactataa taaacagaac ttggattata attttttaca 120
 tctacagtaa attctatttg taataattca tacacatata caagttaatt taaaccatta 180
 ttgagatatg gtttttatat tacctaaccg gcactagggtt atacgagagc atcattctcc 240

caactcattg tgcaagttaa tcaatttcct ggtttttaac aaagattcaa tgaaaatgat 300
ccatcatgaa aaagttcata tttaaaaatg aaccaaccgt attttcacia atgagaaatc 360
tactaaagtt ttgaattaac catcaacatt gtaaaaactc aaatntgatn tgnngctgcta 420
ggatgctcac cgaacttata ttagccatca t 451

<210> 21242
<211> 75
<212> DNA
<213> Glycine max

<400> 21242

tgcgatgcag atcagaaggg atatatttct ttgtaatatg tcttcttcac ataacatgca 60
acacatttat atata 75

<210> 21243
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21243

agctttttatt atttgaagaa aaagacccat tccatccatt gttaaatagt ctaatgaatt 60
aaggaaaaac caattaatca tattaacccat ccattattca catttcacaa taactcaacc 120
catgcaatac atttaaatat atttttttaa aatgaataaa ttggattgaa gtatgaatgc 180
attgttttaa ttagacacat gaatcacttt cccaacttta ttcaacatcg acaatcattt 240
gtaataatth tcataaatcc cgaaacttta ataacctttt tattgtttac aaactgtgcc 300
ccccatcaac taataagcaa ttacacact tccagctntg ttgataagat gtttggttg 360
aatgtattaa cagacaacgg atcgatgctg cttatttcat atcatctatc cgacac 416

<210> 21244
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21244

cgactggctg aacaagtntg tagaatatat gtggccgtat cttgtcttgt ttgtagttnt 60

aatatatgct ntaactcttc gagattaaca tctactatac taggcttttg attctccttg 120
 tttctaagct tgtttgacta tggagatatt ttttaatttat ttaggcaatt tgcaagactg 180
 cgaagaacat tgcaaacct ataattgctg agcagattcc taaatacaaa attgattccg 240
 ttgagtttga aacactcaca ctgnggtcac tgcctccaac atttcaaggt tagtaagtag 300
 atccggataa gaaccttgta attgtccgac aatgtcttgt gaacagtgtt agctgttttc 360
 accgagtttc tattctcttc tattgcttac aaggggataa atatttgatg tnggatttct 420
 gcagtcagaa agacagaatn ttgaatctta acctttacaa caacaacagc aacgccttat 480
 c 481

<210> 21245
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 21245
 agcttggaaca atggcagtga aatcttgcta aaatcctaga taaatctctt gtaaaacttg 60
 gatgtgcgag aaaagaacgt acttcccgca cagatgcgtc gtaaggaaga gaagtaataa 120
 catcgatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180
 tacctccatg gaccataaaa tgacattttt caaagttaag aacaaggtta gtctcagcat 240
 cgggtcaagaa ctctacagag gttatccaaa catgcatcaa aggaagaacc ataaacaatg 300
 aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360
 cacctttgga aggtgccagg agcgttgcac 390

<210> 21246
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21246

cgagtgatat tgtcacagaa tacacttgag gcacctcctc catttcatcc accccacttg 60
 aattctagtc gcgcattagt taanaagggtg tatattttta cagcattgag gagaaataat 120
 aatcaaggga ataatcattc tattttcaaa ataataattg ttacagctgt catgaattac 180
 tagtagttag ttagaggggg taagaaaata aataggaaag actgacagag ggaggagaat 240

aataaatgta agaagagttg gcctctcaaa gagctaagtt aggattgatg cagctcttgc 300
 tacttcatgt attntgataa agaactatcc aaggaagaaa agttingactt acgtgagctc 360
 aaattggatg gactaatcac tagagcaagg agtaaaagat ttcaagaaga gtttgtcaag 420
 agactaaatt ctctcatgga gggaaaagaa gaagaagtga cattcattta tttta 475

<210> 21247
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21247

agcttcttat cctaggctca tcttggtggt gaagctcctt cttccatggc ttactcccta 60
 gtggatggcg tctcctctca cttcttctcc tttgtcttcc gctgcatctc catggtgtaa 120
 aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180
 gcaagcttcc atcactgagg acatggaaag gatgatgttc gtcacccttt ggggaatggt 240
 ctgctacaag gtgatgtcct tttggcttaa gaacgctggg gcaacctacc aacaggctat 300
 ggtagcatta ttccatgata tgatgcacan aagaaatgaa gtctacgtgg atgacatgat 360
 taccaagtct aaacccgagg agaaacatct catcaactt 399

<210> 21248
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21248

tatgcagcgg aaatgtaatt atganattga gatgcccga gaatttctat ttcctagtta 60
 accatgcatt angtaccatg ttcaattatt attttttgtt gttgtgtgtt tttttttttt 120
 agaaatgggt ttatgatccc aacatgggtg gctcatggtg cctaacacat gcaactaaga 180
 atgtagtgtg aagtttccag cttccctttt tttgtttttg tagaggaaaa cacaaggatg 240
 agcaaacatg aaaacaaatg gtatgcaatt ttgcagatca naaagtttgt tgaacgcata 300
 tgcatgatga tgccatgact catgcaaaat gtgaggctgg aatatgataa cggaaaaatg 360
 caggaacgat atgttcatta tgatgttatg aagagatgct tatgatatga atgcattnta 420

eggacacgag agcccggaat attatctctt cttac

455

<210> 21249
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21249

agcttgtatt ntccagggtt tgttttattt ctcatttcgt ttgatcactt gcatgtacta 60
gaaattgagg ttgatcagta gtgctataca ataccatatac agttgcttct ggatcatttg 120
tcaaacacca ttacgtaacc tagtactctg ctttaattaaa aaaaaaaaaat tgaggtcagg 180
ttattttaagt ttatttaaaa aaaaatagggt ttttcttata taaaataagt aatttttata 240
atattttgat atgtttgttt taaattgttt tacttanaat aaatgttttt tttgtttttt 300
tttaaaacaa atactatcta cttcttataa aanaaagggt nttataaaaa gcactttttt 360
taattttttt tttnttagt ttaccctttt ttgttcttgt gacaatatgt 410

<210> 21250
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21250

acccatcaca tgtggtacta ggtggcggtc tggcgatggt gcacaacaag tttccacat 60
ccacaaatcg cacataaacc cacaatcccc tgttgccac ctccaactga gtcacgtac 120
tcccacgtag cccatctcct cgtttctctc aacaccgggt ccccatcaat cctccaagc 180
ttccccaaca tccaagtaat tcaacattca aacagcacia actatcacag ccaagataac 240
agggcaaagg cagaaaactc tgcccaaaac accaaccaaa atcacagctt ttcccactta 300
aagaccccag taacatttcc ttcgttccaa ttcgttaacc gttggatcga ctcanaaat 360
ttactggaag tctctagtac ataagcctac attntgaccg ttgggatttg ctagcaaata 420
tccagaaatc attctgcact actctttcca c 451

<210> 21251
<211> 399

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21251

ttcttatatc aattcagatc aaattgaagt tagcttagct aaaccttggc cagcttagcg 60
 gaccaaatta gccttagatg caagggttgg gcactaagcg cttgagactc gcgacttagc 120
 gcatgaactt agcgcgaggc ttgttcttag caaaaggact atttttcaga aaaaaaatt 180
 tctaagttat ttttcagtcc tttttccaag aaattgaaac ccttatgtta aacattcaaa 240
 gataggctga tatgctccta tgtacagatc agacaacatg ttcaaaatga ttaatgcatg 300
 anaaacaaag ataacaaaaa ttcaaaactg ggttgctcc taggaaatgc ttctttaacg 360
 tcattagctt gacgctntta cctcactggg tgatcttat 399

<210> 21252
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21252

aatactacgc ttgagatgag gaagtgtaga atgggtgaaac ttctgctnt nattctttga 60
 ccacagagtg gtacctggag atatgtcgcg gtggtcagga gaccttgggg acgttaggtg 120
 gggtgctatt gcccaaaacc aagcttgacc aatcccgacc caaccaggc atagtcagtc 180
 agtgagaacc tgtgatgtac ctaaacaggc gagctcctgg cagtcaacag ataaaaggag 240
 caaagactac aaagcatgga ggcttgtgtg gtggctggcc agctatgaac tttgattgat 300
 atatgggata tggcctctgg taattgatta ccaagggtgg gtaattgatt acaaggctta 360
 aaaatgaaga caggagacta aaatagtctc tggtaatcga ttaccaaggg gtgtaatcga 420
 ttactatgct tgaaaacgaa gtcaggaagc taggggagct tctggtaatt ga 472

<210> 21253
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 21253

tttctatatc attttattaa taagaaaaac atcaattggt ctatacaatg atgagaaaca 60

tcaaaacatt atggattagc atagaaccta gacgacatct ttgcaaggac atgaaccatt 120
 tggttcgcca aaattcacat ttgagatacc tagtaaacga aggttattat tacaaaagtg 180
 aaaccaatth cgaatccata tatattggag cagcactgaa gcaagtcaca aacatgtttg 240
 caatcagtct cgaagggtgac gttgttgtcg cccaactcaa tcgtccttta gatttctctt 300
 gcagcagggg tgttttcagc tttgatagaa gtcttgacac tacaaaagtg cctccataat 360
 cacaaatggt agctttcatg gatgcattta cattacact 399

<210> 21254
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 21254

ctcacgcttg tatatccggt agtaagatga ttaagaacta gtcagcgatt catttctatc 60
 aaaatatatt atgattatgt ttagagccat taatagcttg gtagaataaa acatacccg 120
 ttcttcaagc ttgttctggt atagccagaa gtggcagtg aatataatac ttgtaacatg 180
 tagaagttaa agaaacttgg tggatgctc taggtgcaga ctataatgaa tttgtaccac 240
 aaccgatcta aaaggacgtt ctcatgcttc ttaagcgta cccaaactga accttttaca 300
 ttggttgtca agcaactgat gtataaagta gatgtcttat atccatttg tttacgctcg 360
 atgcaaaaag tattgatttc tatcaaataa ttaatggat 399

<210> 21255
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21255

agcttatgat aatgaagttg ttacaaattn tatcttgaat gaaactgtgc caaaaataga 60
 tgtcatgaag ttgttacaat atataatgca cttaataacc ttgcaaataa acttcagata 120
 atcttaatct ttggaaatgt attgatatta ggacaaatgg tcatcacata tgcaacaaac 180
 atatagccat cctaatttac tcagttacat gaagcttggt atgttcaaaa tatcacacat 240
 gcaaattgat gacaccttat agataatagc cttagaagtt gattatcatg actcanaatt 300

aagggtttca ccattacact atcatatcat ttaaccacaa cagagaattt aatacaaagt 360
 cacactaaac ttgagttaca tcacatctac ttatggcact aagtataaac 410

<210> 21256
 <211> 647
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21256

acgcaaccct atttnttttg ttgacattcn ctagctatct agcgtgacat ctattatgaa 60
 tactcacagc cttgagggaa gaaaattgtc ccttaccctt caacactttg annaatgtgg 120
 ttttttcata tatgttcnnt aaatgnnncc cacganatnn gtcttatnnt gtagattana 180
 gaaatgtcat ttcgaagaaa gaacgaaatg ataaatnttg cgcanagtaa gggggccaaa 240
 tgtaagtgtt cattggtttg cttgaaaggg ttgagggagc ccattgcaga tgcccgaatg 300
 ggcattgacn ccaagnnnac tcataatggc nncatggtga aagtttgaaa tgggttgttt 360
 tgcttatatt cangtctctt ttcatttann gatttnnggt ggtagccctt tgcaaaagtg 420
 gtcccatttt tcgataaacc cagcagggca cnccttctat attcatttct agcangcttc 480
 attcanatgn ngtagggatt tttgggaatt gatcccttat acggtcattg gcngtttata 540
 tgccacgata nnatccacac agaaatgcca tgatccatcc cctcttcttg accaacaaaa 600
 ccggcaacga gaaaggaact ggagtggatt tgataattcc atttagg 647

<210> 21257
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21257

agcttggttaa acaatataag caatgaagaa atgctgattn ttaatgagtc gctcaaaaac 60
 caaatactgc tcatcaccaa ataatacaat aataaataaa aacaaaagaa aaagaaatta 120
 atacttctct ccgagtgtt aaataccaaa tactgtcat caccaaataat ggtttctagt 180
 aagtaatttc accaactggc tgaacttaag attatgcaaa ttgctgaatg gtacaaagca 240
 tatctcacac gaaaagtacg aaaatagaaa tcaacggctg tccatcattt ccgtcaattc 300

<213> Glycine max

<223> unsure at all n locations

<400> 21260

ntataagcgc gggctctggga gacgaaggtc aagtgttcgc gatttgcgaa gatgatgttc 60

cgagtacttt ggatttggtg cgaccatgcc ctcttgattt ccggctggga aattggcgag 120

tggaagaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180

ctctatagtt gggcctaggc tttagagttt ttctttttgt taaggctttg tgtcttttgt 240

ttttgaattt ataatacgag gatctttctt catctgttcc tggctctctac ccattctcat 300

tcatttgcag gtttacttct ttttctgaaa cggcagatcc gatgacgagt cccccgaagg 360

tactaatacc tnggacccgc ctatcgactt cgagcaagaa atgaatcana cggaagatga 420

aggaactgag gatgtgggac ttccccaga actagaaaga atggtcgccc atg 473

<210> 21261

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21261

agcttcttcg atctattggg gaggctacat gcatgagatt gcacgtactt tgataataga 60

aagcttagct ttcagagcaa ttaataaagc aaaagcatta tagagagctt ctataaatta 120

tgtgaaggcg gtgcatgatt cgtattaaat tagacaaaga aagatcataa agatgcatct 180

tcgattggct gaatgattga ttgtaaggcg tcgatctgtg acatatcatt ttgtgtgaga 240

atgatttttg accaggaact tttggagaag aggacttaag tgggattcaa taatagacct 300

tctttattgc tgaaatggat atgtnttttg gcaactggaa agatagataa atggctcaaa 360

gtaaaaagga gtagtcttaa ttacta 386

<210> 21262

<211> 355

<212> DNA

<213> Glycine max

<400> 21262

catgcaacaa ttgttagccg tggctatacg agacatcttg ccaacaaag tcaggttcac 60

cataactcgc atgtgctttt tcttccatgc tataatgtagc aaagtgattg atccagtaat 120
 gtttgatgag ttggaaaatg aggccgcaat tataactgtgc cagttggaga tgtattttcc 180
 ccctgctttc tttgacatca tgattcactt gattgtgcat ctggtcagag aaatcaaattg 240
 ttgtggctct gtttatctac ggtggatgta cccgggtgag cgatacatga agatcttaaa 300
 agggatataca aagaatctat atcgtccgga agcatctatt gttgagaggt acatt 355

<210> 21263
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 21263

tatctttggt cacaagaatc acttaaaacc gttttaaggt ccaacgcctt aaacggctct 60
 ctttgctttt atcggttaac atggaccaag caagaaacga gtcagacaga ggggtgaagaa 120
 gacgaagacg taggacttcc cctagagcta gagaggataa ttgctcagga ggatcgagag 180
 atgaggccac atcaagaaga gacggagctt gtagacttag gtgctggcag tgaaaggaag 240
 gaagtgaag taggcatagg tatgaccccc cccccccca tccgtgagga attcgtggcc 300
 ctgccgaggg actaccatga cgcctttgct tggttgtacc aagatatgcc tagtttaagt 360
 cagcatcgc tgaaacat 378

<210> 21264
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations.
 <400> 21264

tataagaaca aaattgccta aatcatttcc aaatatgcat gtgatttatg aagcattaac 60
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120
 tgatgatgga tggctcanat tatcaciaag gtaaacttat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agggaaaaaca aggatntcaa atcacaaaat gtcaagagac 240
 ttttattttc agaacaattt cccattnttt gaacatatcc tataattcaa agaaaaatat 300
 gcaaagttgt acatgcaaac aaaattgacc tataatatta aactagaaac ccaacaaaac 360
 taacaaattt aacacaaaca aaactaaca aactagcaaa accaaaacca aagaacactc 420

ccnccccat acttaaacaacacatggtcc tcaatgtagc acaat

465

<210> 21265
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21265

agcttgttct tattaatatg gacataaata gtgggatgtt aagttagttt tacggggatt 60
tcaatttgaa atctgaaatg tgttcatttt attttgtgaa ggtttttgat tcttctgccc 120
agcaaagggga tctttatgaa caagttgtta ctctgatagt taatgaagtt ctagagggat 180
ttttatgcag gccatgctag caatcttgcc actcaagcag accaagttga ggttgagttg 240
actgttaatt attttcatta ttataactct tgctaattat attcttatgt ttgatttcac 300
ttgcacttgg aaatttgagt gcaaaacata tgtggactga catgctacaa tggaggaagg 360
agtttgggtg tgatactatt atgcacgtaa atgcanttgg aatttatggc atttgt 416

<210> 21266
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21266

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ggtggtaatg acggaccgag gcataaccgg gttgaggagg taaagctcaa tgttcctccc 120
ttcaaaggta gaagtgatcc agatgcctac ctggactggg aaatgaagac tgagcacgta 180
tttgctgca atgactacac tgatgcgcaa aaagtcaagc tagcagcagt tgaattctcc 240
gactatgccc ttgtttggtg gcataaatac tagagagaaa tgttgagaga ggaacggcga 300
gaggttgata catggactga gatgaaaagg gtgatgagaa aaaggatatgt gccactanc 360
tataacagaa ccatgcgaca gaaactccaa gggctgtccc aagggaattt aaccatggaa 420
gaatattata aagagatgga aatggcggtta gtgagggtca acat 464

<210> 21267
<211> 411

<212> DNA
<213> Glycine max

<400> 21267

agcttagtaa agttaagcac taacaatctc cccctttggg aaattttgtc taaaacatac 60
ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120
cagagtaatc aagcacagcg gaaattctgc atgttgcaag tcgtttccag gatgtcaaga 180
catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct tactgcagca 240
tcttctaaca gctactagtc ttttccagga tgtcaagaca tctcatgtga catcagctgc 300
tccccctgtc tccatgctct tactgttgca tcttttatca gctactagta gcttacacca 360
gtcatcatca gcagcagcag tctccccctc aaatcatata catacaactc c 411

<210> 21268
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21268

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nggggtggtaa ggtgtggaaa ttctgtgcac gaccccatac tttntgagca aggcatacat 120
ggatctatta caaaaatggg tgccttgatc actaacgatg gctctagaga ctccaaacct 180
gcaaaacata ttagatctaa caaaatccac aacaacctta gcatcgttag ttctggtggc 240
tntaacttcc actcactttg aaacataatg aacaacaagg agaataaaa caaaacaaaa 300
agagacaggg aaaggcccca taaagtctat acccaaacad caaacacctc acagaacaac 360
atgggttggt gaggcatttg ttgtctccat gaaagtgagc cgctgctct ctgacaaggc 420
tcacaagtgc tacagattct ccacgcatec ttgaagatgg tgggccaata gaaaccacag 480
tcaagcact 489

<210> 21269
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21269

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 tatcagaggg actgatgggc actatgaatg acaaattctt tgagataaag gtagtggtgc 120
 catgtattca aagcccgtag taatgcatac aactccttat cataagttga atagttaatg 180
 gtaggaccac ttaactnttc actaaaataa gcaattggat ggcctttttg catcaacaca 240
 gccccaatcc caacatttga agcatcacac tcaatttcaa aagatttttg aatgtttggc 300
 aacgcaagta tggnggcatt agctagctct tgctaagatc attgaaagct cttcttgttt 360
 ctctcgccat atgaaccaac atttttttga cacttcatta gaggtgctgc aatgtgct 418

<210> 21270
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21270

agagatacnt ttgatgcctc gtagatctac acctttatac acacgccagc gaagctaatac 60
 actcacaata taatcaagtg ccaatacatt ttcttgcatg aggagtttca ggcattgcaga 120
 taagaatgaa gatcaggctt gtatgcatcc actgtatgga caaatactct cccaacgaat 180
 acagaatgat ctgctcacat ggtgcccata gcattcaaaa cactttaatg atcagctata 240
 tcacctatct ccatagatag tgtgcatgca tgtacatcta tcacaaaacg agcagagacc 300
 attatctgcc taactataac gatgggatcg gacccttcga taattccagc aacatancca 360
 aagggtgtcaa tccacacgga ttgccctaca ctattctaca ctagcccacc tatattaacc 420
 ttctgatagg cgcacttata tacctgactg acctatacac taaatgctgc tcccgcgtca 480
 ttaacacaca ttgccttacg gaggcctaca aacag 515

<210> 21271
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21271

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 gggtacttcc tcattgacat cttttgtctt gaatggaatt gccatgacag gtctgttgtt 120

actgtctttg atattcggtg gttgatattg tgttgcgga ggtaattccg attggattaa 180
 ctcaccatcc ttcacttgcc aatttggtat gacatttggt gttggatcac ctatgatgtc 240
 ttgtttccaa gggtaatcta tctctttct gatggcataa gcatgaaacc aataaaagaa 300
 aaggacatta attntgactc gttcgacaaa ttcgtagaac ttgtcttgga tttgttttct 360
 gtttgtaacc ttgtaatgtt ggaaaaacca tctcctttga ggttcattct tcgg 414

<210> 21272
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21272

cgagaactct ctcttaggga attctttctt ctctatcatc attttctatt tctttntcc 60
 atcccttctc ctccatcaat tctataacc cttgtctagt gtaaggctcc ttatgggtat 120
 gagaggctaa acccttagtt agggctctgac aggcctaaaa agtcaaaaaa tgtattgtat 180
 atttcatatc tatcaatgca aacaagtgtt ttctttccta ttatcttttc ttacttttaa 240
 tttcatgcat cattcatcct tacatcattt ttgggggtta ggtgttcgac aaaaagtaat 300
 ccttaataga tatacaagga aggtcttaca tgtatctatt ttatgagctc gacagagggt 360
 aatntctaata agaattaana ggaanatgta tctgttcttc tttccaacgt gtgtaataaa 420
 cataaaattt gaatgcattc tctctctatc tccnactctc tttc 464

<210> 21273
 <211> 407
 <212> DNA
 <213> Glycine max
 <400> 21273

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 ttgttcgtgt ttgcacgctt agcgcaactc taaaccgctt agcgtgcatt agtgaatttc 120
 agcttagcac atgctttcct cgctcaacgg atgggctgaa gcggtgcgct tcgctggatg 180
 acccttcgca tagcgcaatt tcacaactca tcttcttcc agattcttcc tcgcgcttag 240
 tcaaggggtg tttcgctcaa cggatggctc gctaagccag aagattggct tagcaagagg 300

gtgaaaatca acacttcaca aacttgccta attaacctga aattgagaga aaatgattat 360
 taaacacaca aaatggacat actaagtatt tattacctat ctttaac 407

<210> 21274
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21274

tgtcttagcg tntatgcgag acggagacca acatgctagc tatcatcttc aagtaccaag 60
 aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gctcaagtat 120
 atgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gaaaccatgt 180
 ggatggaccg gtttgcctct accttatacg ggagtcaaga acttccccac ttgttagcca 240
 aggccaaggc gatggcagac acctactcca cccccgaaga gagtcatggg cttctcggtc 300
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
 tgggtctctca gaccttgact ggatacgact tcctttntga aataaaatga gttgttccca 420
 tgtttctact ccaaaaagct tgtggaatc aagtcactcc cacattntat ctctagcatg 480

<210> 21275
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 21275

agctttgttg ggtgcaccag caaaaatgct ggggtgcacct agcaacactc aactttttat 60
 ggaaatcaga ctttgccttg gttcggtcca attgatactt gggctgtaac tcctgaactt 120
 gtcttgaaaa aaattatttc ctaattgagc ctaaattggt ttggaattgt tgagcaacaa 180
 ttaccatacc gctggtatca ataattatta tttatcaaac taacttataa acaaatgggtt 240
 tgaaatacct ttgttgact atttgtttat taaaaaaat acatatttat taaagaaatt 300
 ataaattaag taattaaagt atgtaacttt tattattaat tcaaaggatt tgagttaaaa 360
 gtatgtaact ctttttatat aaagtatcta aacttatc 398

<210> 21276
 <211> 435

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21276

tgtgaacatt ctcgaaggct tgaactgcac actggatddd attgctgctg aacagaagag 60
gattgttaat tatgtcgctt cgttgcagga gatggggaaa aaggggagaat tgaaagggttt 120
gttatctcaa ctcaatatct attntgtggt tatctaata tgcaagaact gatcttggac 180
tgaatttcat ccatgttttg atattgttgt tgttcaatga atttacaatt gttggagaag 240
aaagttatgt gtttgggaag tttggatagt ttgtatgagg tcttangttt tatttgggct 300
gaaaccaggg tatecttcag cttagagtcg tagagtaatt tcgtgaggta ctgagatntg 360
tttaagacga ttatcactcc tagaagatct gtattccata cacacggacc tgaggaccga 420
acctttgact acatg 435

<210> 21277
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21277

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tntttgggtg taaggacggc tttagcccat caatcctttt tctatatcta tcatattaat 120
gatccggggt cctttgaata ttttacagga aagattctat ttcacctgta atccgatttc 180
gtaatcccgat gatgtgaccg ttttatttca tataaattaa ttccttcttt tatatgtgca 240
catacaagag ttgggttagc cgtttttttc ttgtacaaaa gtaaattaa ccattttcac 300
cagtttagcg gctntcgcca ccttcttcta cctctacaat atcccaccac tgccacaatg 360
cccccttcac gtgtcacctc anggcgtcng acatcctcct ctgtcatgt 409

<210> 21278
<211> 444
<212> DNA
<213> Glycine max

<400> 21278

tgatatttgt gccatagtag gccagatatt gattatggta tgggttttgt aagcagatat 60

atgaatgatac taaggacttc tcatatggct gcagtaaaga gaattttgag atatgtgaaa 120
 ggcacacttg attatggctt cttattctcc aaagcaaatac ataatacaagg aataaggtta 180
 attgggttttt ctaatgcaga ctatagtggg gatgtagagg acagcaaaaag caccactaga 240
 tatgtcttca aattacttgg atcaacaatac tgcttgagtt ctaagaagca agaagatgtt 300
 agactttcaa cttgtgagtt agagtacatg gctattgtct cagcagcttg tcaatcagcc 360
 ttgttgaggt cctgttgta gaattgaata ttcagcttga ttcagttgtt caacttaata 420
 tggacaacaa gtctgtata tgtc 444

<210> 21279
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21279

ttcttgatc atataaagt gatccgagga actctcaagg acttgggtcaa gatgtctata 60
 agctgggtgt tggagttaat aaatttagta ctaatttctt tggactgcag ctttttccga 120
 acaaaatgac aatcaatctc tatatgtttt gttcttttgt gaaatacagg attagaggtg 180
 atgtgaagag ctgctgatt atcacaatac aactttattt gctgaacatc acanaatttt 240
 aattattgaa gttgtttaat ccacaacaat tcacaagtaa caagagccat agctctatat 300
 tctgctnttg cacttgatca agcaaaaaca ctctgtttct tgctttttca agagacaata 360
 tttctccaa aggatacacc atatccagt gtggatgcc tgtctatggg a 411

<210> 21280
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21280

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 caagtaaaat aatccaacta agcataaact aatacaagta gaaggataag aaaaaccagt 120
 aatgatcaa accaaactgt attttattca tattccatgt agtcttagat acatggaaat 180
 ttgatcacat gaacccatt attctagtcc ctttttttga cacaagtaaa ttaacaagaa 240

acaacattga gtgacactac ttaattataa caaacaatt aacggaataa gtgatgacta 300
gtactactta ttagttgtag tatgttcctg gggtttggaa ccagtgcag tatatttaaat 360
ttcctttctc ataaatctgg actttggtgt cataagtagc ac 402

<210> 21281
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21281

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atctgcaaaa gaacatagac cacagactct tgcaataagt gcatatttct aatttatggc 120
aagctgagtt actaggttga ccaaggcatn caagtttctt tcaagctttt tattttcagt 180
agatgaagat gaatccgtgg ccacctcatg gactcctcta aggacaatag catcatttct 240
tgcaactgaat tgttgggagt tggaagccat cttctcaatc aaatatctag cctcagcagg 300
ggcatatatca ccaagggctc caccactaat gagggcagct ngcacacaat ttcttgaatc 360
ttttccagta ctcatacaag ctntctccac taagttgcct gatgcct 407

<210> 21282
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21282

ntgaaatggg ctccatgta ggggtgagtt gcgagataaa tctctcgata taattcaacc 60
tgcccaagaa acctcgaacc tgcttctccg tgcgtgggtc cggcatttca ataattggcct 120
tcattttctc gggatctatc gctatccctt tctgacttac gataaatccc agcaacttcc 180
ccgactttac cccgaaggta cacttggttg ggtttagctt cagttggtat ttccgcaacc 240
ttctgaacag cttacgcaga ttgacgaggt gttcgtctc agtctgagat ttggcaatca 300
tgtcatctac gtagacctct atttcttat gcatcatgtc atggaacaac gccaccatgg 360
cacgtgata ggttgcccca gcatttttca gccgaatgc catcacttta tatcagaacg 420
tcccccatag ggtgacgaaa gtggtcttct ctacatctt 459

<210> 21283
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21283

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 aatatgcac tgcacctgtt gcaagagtct gtgggtctgtg ttattctgta gatcaccata 120
 cagatttcat ccttctttgc agcaatatgg agtcaatgag caacctgaag cttatgctgc 180
 aaacatttat aatagacctc ctcaacagca aaaccaacaa tggcaaaata attatgagct 240
 ttcgagcaat agatacaatc cagggttgag gaatcatcca aatctgagat ggacaagtcc 300
 tccacaacaa caacagcctg tccctccttt ccagaatcct gctgggtccaa gcaagccata 360
 tgttcctcct ccaatacagc agtagtcaca acanagacaa caagcaactg 410

<210> 21284
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21284

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 tttggagtta tgtagtatcc tctaggccct gcccaaggca gatagggtcaa gtaagcacao 120
 aatccaaaaa ttagctacaa ttctcaatta agctcaatca ttacctaag accaaaactg 180
 agttagggtg agaaaataag ggtcaaagag atgttaattg agcgaagaag aatagaaaaa 240
 tattaacta taaatgctca atcaatattt tacatttttt tgggtttattg ctaattatac 300
 gacatgagtt tttctaaaaa attgatgttg tgaagtgtat gttaacatta gttttttgaa 360
 aaccaaagtt aacattgagt tcattaacgt tgggtgtttaa ccaatgttga aagttgaaaa 420
 aaaccaaagt taaaatccta ttttctagta gtgaatcana cnttccaag ttatc 475

<210> 21285
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21285

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcctta 60
atggatggcg cctcctctca cctcctttcc ttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga agccccacaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattaatt tttttgcttt accttctctt ccattgttgc ttcttcattt ttctccatgt 300
atctctcac atgtcttggt ctanatgttg ttaacatgat tcttttagagt ttccaccgat 360
taaacttgct atagaagtta gaattgattt tctat 395

<210> 21286
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21286

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tcttggtctt cgtttgaagt cttgagcctg ttggagcatt tagtgcttgt actaaatgca 120
catcccttct tcattcaaag tccatgccaa taggctagtg tgtcttgtat tttagcagga 180
aagtcatttc tttcaacata acatgattgt aacaatagag tgtgcctttt gatgaggatg 240
tgtgtctttc agacagtggg ctccatttat tattcttaag actttgaaag atcccaggag 300
aatggtttat gcagganaga atctcacaca cagagtatta aatgaaggtc ttanatacac 360
tacttaaagt ctatgttaga tcgtcttatg gatgcaacat atgaatatac agtcgtagag 420
atacagaaaa tgatttcata gcatatcaca cacc 454

<210> 21287
<211> 398
<212> DNA
<213> Glycine max

<400> 21287

ttcttgtgac atgaggccat taagtgcctc tgccacaatg ttataaagaa gaggtgatag 60
agggtctcct tgccttagtc ctttctgagg taggaactca gctgagggac taccattcac 120

gccccgacgt tcttgagccc aaaggacatc accttatagc agaaccttcc ccacaggggtg 360
acgacacatg gtctnttcca tatectctgg tgccatcttt atctg 405

<210> 21290
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21290

tgctaaccce tggaagctcc taatatctcc cacactntnn tgggtggtct cattcttgga 60
tggccttgat tntctcaggg tccacttgga cccatttct accaactaca aaacctaaga 120
aaactatatt atctacacaa aaggtagact tctctatatt tgcatagagg gtgtttttcc 180
taaggactga aagaacttgc ctgagatgac ctaagtgate atctaggctc ctactgtaca 240
ctaaaatata atcaaaataa acaactacaa ttctacctag gaaatccctt aagacatgat 300
gcataagcct cataaagggtg cttggtgcat tagtgagccc aaaaggcatc actagccatt 360
catacaaacc aaacttggtc ttgaaagcgg ttntccactc atcacccttt ttcactctga 420
tttggtgata accactttta agaatacaatt ttgaaaagat attggcacca tgcaactcat 480
ca 482

<210> 21291
<211> 270
<212> DNA
<213> Glycine max

<400> 21291

ccaataaagg accccattga agcttaaaga tccacgtcca ctagaagccc ccacaagcaa 60
gtttccatca atatggataa catatagata tgaccataat cactgagata aacttcatga 120
aacaggacct caacatcggg caacatgtcg agcacaatgt cgatgaaact taagacactt 180
gagcatctca caacaactga atttctatac tctggacgga ccttagatat gaaggcgagc 240
acattacca cgaactgate aagtgttca 270

<210> 21292
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21292

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caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acacaaaag 120
attatgatga tggatggctc gaattctcac aaaggtaaac ttatcacttt caaattgagc 180
tttcaaaact atcatgacat gtaaaggaaa aacaaggatt tcaagtcaca aaatgtcaag 240
agacttttat tttcagagca attaccatt acttgaacat atcctataat ttanagacaa 300
acatgcaaat ttaacacaac aaaactaaca aaattatatt agaaccaac aaaactaaca 360
aaattaaact aatttaacat gactaacaaa accaaaacca aagaacacac tcccc 416

<210> 21293
<211> 379
<212> DNA
<213> Glycine max

<400> 21293

tcatcaagag attataaata tgtgaccatg gcatttgttt cttgaatgat ctctcatcta 60
tcatctatct ttcaatctat ctttcaatat cttctttcat ctctttcaac agatctttct 120
aaattatttc tcttcattat tctaaaagat tttttcaaca ctttctcttc caagaaaagt 180
tttttgttca gaaacttggt ctattcatct ttttcattca cttatccctt tgccaaaaga 240
accaaggact aatcgctga attcttttgt gtctctcttc tcccttaca aagattcaaa 300
ggactaaccg cctaagaatt ctttggattc ttccctttcc ctttaagacag agattacaaa 360
tgactaaccg cctgagata 379

<210> 21294
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21294

agctnttatt tcaataaata agtttaaata agttggccca taatcaatat aaagtaatgg 60
aaaaaaaaca taatcaaaca tctatttgct tttatcaagt ctatttcaag tctagtatta 120
aaattcaata ttttttttta tataatgtta ctctgtaata atttttatat gcatttatta 180

tcaaaattaa aattcattnt aaatgtattg aaatagagta attntaatta aacatataca 240
 atttttaatt attttaaaac aatattttta atgattntaa agatattaat tntcattatg 300
 tgataatatt aaagattaat ctcatcgat aataaataaa acactntcat ttagtataat 360
 taaaattata tattattatc attattatta tcaccattaa aattataaaa cactt 415

<210> 21295
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21295

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 gctcttttct tctctatttg ccttttagttg aatacacctt tgtgtgggtc tctatttggg 120
 tcttaaccct ctcatgcaac ttctttacaa actctgacct agattccctt tcttgatgta 180
 taaacaaagt gtccagtggg aggggaataa ggtctaacga tgtagggaa ttgaacccat 240
 agacaacctc aaaaggggat tgcttggtgg ttctatgagc tcccctgttg tcggcaaatt 300
 ctacatgagg aagatactca tccaagact tatggttgcc ttttagaaga gcccttgana 360
 gggtagataa agacctattc actacctcta ttgcccatac agtttgtgga tgacaagtag 420
 t 421

<210> 21296
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21296

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 taaatatttc atatatcatc atttttatat ttttattatt ttaaaaatga ccataatatt 120
 tttatgtaaa ttaaactagt tttctagggt tttaaccata atatatgtat ttttcaaac 180
 ttccatttca aagaaaataa tatttattat tttaagttca aaactcaaag aggaaaaaat 240
 gcatgcaaac aaattcaaata aataagtatt ggctaaaata tttttattat gaaattaaat 300
 tttttaagga taaataattt cattntttgt aatatttgat attttgattt ttatttgatc 360

cttanaagta acattgtaac aataaaataa tattttttcan agtttatgaa aaaataatat 420
a 421

<210> 21297
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21297

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ctcggagaa aacacaaaaa gataggaact tccaatcaa aagagtggaa gaaaacaaaa 120
agagaaaatt cccaatcgaa gagtgggaga aagcaaaaaa aaggaaagaa aattcccaat 180
caaagatcgg aggaaaacag aagaaatata cagaaagggtc tttggaccag acaatatctg 240
aacaatacag aattgtcacc aagaaaatat gaaaagaaag gaaaccacga cctanagtgg 300
tcctctccct ttgattacca accaaaatcc tgtgcgtcgg tgacttggtt gcctcgcgct 360
aaacaaaaat agaanataaa aaggccaaaa aactcaaag ccaaatttcc caccaagaat 420
aaccocatcc ccaagaaaaa gtctactga tccatgatca cgcagtgaat ctttgatttg 480
at 482

<210> 21298
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21298

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acaaagtact ttcggcacct actatatgtt gacttgacca acgctgttat tggaatgctg 120
cgacaatctt tcaacacctt attcacacat tctgataggt tggttgtcat gtgaccatat 180
cgtcgtccag atgtatcgta agccatgctc catttttctt tcgaaatgcg atcaatccat 240
cttgctatgg ctggactcag ttgacgaaat ttttctaagt tttgatcaaa cacatgcttg 300
caaggagtgt acgctgcac aaatttgta tcatganaag ttatacgtag acatcaaagt 360
caaaataata taatgtataa aataaacctt acccaatttc ttgaacatc 409

<210> 21299
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21299

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 aataaaagag ggagagaagt ggaactttga agtgtgtctc ataagacttt cattcttcaa 120
 agttacaaca agtgttacac atgcttctat ttatagacta tgtagcattc ttgagaagct 180
 ttcttgagaa aacttacttg agaagcttct ttgagaaaac ttccttgaga atctagagct 240
 tagctacaca catccctcta ataactaagt tcacctcctt gagaagattc ctaaagaagc 300
 tagaacttag ctacacacac ctctctaata gctaagctca cctccttgag ataagaagct 360
 agagcttagc tacacacccn ctataatagt taagctcacc cctatgccca ataacatgag 420
 tatacagaaa aagtccttac tagcaagact actcaaaatg ccctgaatac aatgcta 477

<210> 21300
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21300

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 ttgttcaaga aattctaaaa aattgttcta aaaagttatt aaaatgcaag tcaaggtctt 120
 gcttttatag actcttcatg tctgggtcaag aaaaccattg gaagagttat aaccttgaga 180
 aaaacctgaa aaccattgga agagttacat ctcttgactt ttatttcaaa acttgtcact 240
 ggtaattgat taccaaaacc atataatcga ttacacaaaa cattntatga aaggatgtga 300
 ctcttcacaa ttgatntga atttcaacgt tcagatacac tggtaatcga ttaccaatat 360
 attataatcg attacaccat ttaaaaatca attggaacgt tgcanattca g 411

<210> 21301
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21301.

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atgggcgctt ctctcacctc ttttcctttt cttccgctgc atctccatgg tggaaaatca 120
ccattaaagg accccattga agctcaaaga tccagcctcc atagaagccc ccacaagcaa 180
gtttccatca atatggataa catatagata tgacaataat cactgaaata aacttcatga 240
aacaggacct caacatcggg caacatgtcg agcacaatgt tgatgaaact taagtcactt 300
gagcatttca gaacaactga atttttatac tttggttgga ccttgattnt aaaggcaagc 360
acattaccca ggaacttatt aagtgttca gacgatgcan ttaaattgag atcaccatcc 420
ttgaacaaag ataatcaatt tctgcatcaa acagttgtga tgatagcaga taacatac 478

<210> 21302
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21302

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tgccatctcc atctaatttt acctttgcct tgagatgttt ggtgctttgt ttgttgattt 120
ctttgtaatg tttgtgagat gagttgtgtg taaacccatg gtccaatgct ttgattggtg 180
gctgtactag atggctctag gcctatcttt gatTTTTTTTT ttacagatta gcatgtcatg 240
ttgtctctta tccctcattt atacatgctt taacatatgc acaccaacta tntgatgaaa 300
taacacantt gctattctac gtgttatttt gatgcttgaa tgggtaatga tatctacaca 360
tggttcagcca ttattttacg tgtatgatca actt 394

<210> 21303
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21303

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canaaacatg attgagtaga gaaacatctt tatatgcac agctggtttg ttagaaagac 120
 ctaacacctt tacctactgc tgtcaatctt acttacttgc atttttacta tatttagcct 180
 agacttattt taattttggtt ttaaaccatc aattatcaat gtttctttca acaatgcctt 240
 atttctgaat ttaaccctgc ctaatactag ttccctgagt tcgatactcg gattcatctg 300
 ttttaattnt aaatacttga tgaccgatg cctttccatc aaaccggatt tcccttgaac 360
 atatttgtat gaagaaaaag tggacaaaa agtatatgca tgggaaatcc aacactggtc 420
 ttatctgtag tatgcttttg catactaagc atgtgattaa gatcact 467

<210> 21304
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21304

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 caaatttaca gttttgcttg tcctcaagca aagaagaac agttcacttg tcctcaagtg 120
 acaagacag tggccaaata aaagaaaatg gtgtttgatt catcaaggac atcaaccata 180
 tgaactgaat accatggaat gcttaaatca attacttctc acaagcatgc agtctttcaa 240
 agataagagc acaagtatta gagtcacagc tgaaataagc tagtaagcat gacaganatc 300
 aaggaaggat catcaaccaa aacctcacag tcattgtttc actcaaactc aagtgtntag 360
 gcttattcca tcatatacaa ccaacacaag ttccaacctt tgcatttcat ct 412

<210> 21305
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 21305

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 aagaacgggt cagacctttg cgagattcct cacggaaaac gttacggaaa cgtttcggaa 120
 gcgcctoggc ttagattttc ttcacggaaa caatttttcc aagcaaattc gaaagagaga 180
 gaagtgccta aggggctgga ccccttcctt cttcatttcc tcccctattt ataggaaaat 240
 aggggaggtg gttgccgccc agctcgccca ggcgagctca gctcgcccag gcgagcaggg 300

ttgcttcctc cagaagcaac cgccttctgg aggaatcttc tggagggccc atgtgggcct 360
gggtgctatg tgcaccccca ttcttactaa gtacaccccc etc 403

<210> 21306
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21306

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gtttgtattg ataatcgaag agataggaag gaggatgggt cttgctagct gaacggcgag 120
gagaagaagg ttgatgggag attggtgatt catttgagga aggaggagac atggttgatg 180
gtgaataaag ggacggctcg ttgaatggag gattggaaat agggctacta agtgaatttg 240
gtaaaggtga tgaaggggat gtggtctcaa aggaacaaa aggtgtgttg gttggtatag 300
caggtgagga tgggtgtattt agtaagttag tgatggaatt attangaaga ggaggtgaat 360
gtnnngttgg attgatagga gtagtgtgaa aaggaaaaat tagttcatg 409

<210> 21307
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21307

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tatatattct tgttttttat tttaattttt accgattaat ttggaattgt atttatgttt 120
tattttttta gcattcttga attttcatgt ttctaacctt tataattttt tttctatttt 180
tatttaattt tttttatatg aaatagcaat taaatgcgta ttaagattta agggacacct 240
catagaggga tatctcatgc acgctcaatt ctcttaatta tgagtcacgg tttgcaaatt 300
gcaacccttg aaattatagg atagaagagg aaattgatta tcaattcatt tggggtaatg 360
gatgagatag 370

<210> 21308
<211> 400

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21308

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 gaaacctcac accgagagga acccttcaat tggagcgaaa ttttccaaac ttacctcacg 120
 gtttcggttg agaatgaagc ccaatctgac cttcgcagtt ttcttcgagg taaccgtgat 180
 tctaagcttg ttccttggtg gtttaagctt atccttgcac ctttttctga ctttggaacc 240
 accattgtaa gttttatgct tcctttggaa aaccctagag aaagacactn tgtaaaagtt 300
 atctttntat gaaatgggtg ttattttcgt gaccttcact gaatcccagt cgcattggca 360
 tgactnagaa tttcaaata tgctcctttt gtagactcga 400

<210> 21309
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21309

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 aatcttttct tttgatctct tgatcttgac ttgaacttgt agtgtaaaaa ataattggact 120
 aacatgaatc ttttcttttag gtcacatggt tgttggtata ttagaggat gaagactcac 180
 ccatacgacc aacatttttc aaatggaatc attgatgttt ttagatcggt ggggatggaa 240
 tgagttcgct acaacaagca ataataaggt ggatggactt gttcaaggaa atgaggatct 300
 tccaaggata catcatgagt tcaaaagggt atatgatgaa ttntagttta tggattcatt 360
 gctctcggtc ttactcattt cttggatatt agagagggtg gactagactg tcgttcatga 420
 tgtattaaac tcttgatct gacttagatg ttatatgtat ttaa 464

<210> 21310
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 21310

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gttgtgccat gttctcagaa tgtgcaaaat cagaatgctc agaatcagaa tgcacaaaat 120
 tataatgctc aagattagga tgttcaaaat caccaataac agaatgcaca gattcaccag 180
 ttatacaatg ctcagaatga tcaaaaggta taaaatgatg cctaactgaa attctgatac 240
 tgaggacaga tgctgtacag gatgtcacga catcgcgctt cagaacatgc agattgtata 300
 tgacagtatg aacagattat acaagtaaata aacacaagag aattgtaacc cagttcgggtg 360
 caacgtcacc tacatctggg ggctacc 387

<210> 21311
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21311

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 gaggacatgg catatcaact tgctacttca agaaaaatta tagtaacatt aaaatgatat 120
 ggggtcccaa aggatcctca gtttatacta acatgcaagg acccaataaa atttgggtac 180
 ctaagtcaaa aacttgatta tgcaggatc tttgagaaag aagtgtgata tagatagcgg 240
 atgctcaaaa tatatgactg gagatgcac annatttaca cacatatctc caaagaaaag 300
 cgggcatgta acataggtg acaacaaca aggtagaatt cttggagtgg gtaaaatagg 360
 tacannatct tcanactcca ttgaanatgt tctacnttgt gaaggcctta agcacagcct 420
 gcttagcggt agtcaactat gtgacanagg ctatctagta tcat 464

<210> 21312
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21312

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 gaccattgtc tatgataagc aaaaggaacc tcaatgacgt tctgcaaatt aacatttgaa 120
 gcatattatt tatttgatat taacataaat aagtaaagt ttaggggtga aagtcatgac 180
 ctgctcaaga tggaatgacg catcaaatcg gtgcacaatt ctcggtactc ataaatttga 240

tggggccctag atgagaaaacg tttatgtaat gagtaagtga acaaagatgt acccattgaa 300
 aggagaagat aaatatgcgc aatatcaaac atgtactatg aacganaaga gcaagcatag 360
 aaagatgaag gatgcatgat gaagcaaact cgaacatata cttataa 407

<210> 21313
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21313

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 agacaatgtg aaagttataa ctactagctt atgagaaaac atgaaaaacc acatctagat 120
 ggtgaaaatca aacacgctat taatccttga ggggaagtata ttactattga ttntctattt 180
 ccatcatttg tgtaataagg catttctttc cttgaactat aaattagat aattggggat 240
 cttaatgctt aattggacta tctgactcac agatcccaaa tgacctttta gttttttaag 300
 ctctgaattt gcgtttctaa ttgaaagatg aatgactaat gatctgaatt ttcttcttgc 360
 aatggtgaca ttnttggcag acttatgtgt ccaacaatga aaagattgtg catctcagac 420
 cccggacttc aaccaaagaa ttcaagctaa caagaaaatc caagtttgat aatc 474

<210> 21314
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21314

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 catttgctgc ccaagtttca tgggtcttgc ggtgaagatc ctcataagca tcttaaggag 120
 ttccatatcg tttgttccac catgaagccc tctgatgtcc tagaagatca tacctttcta 180
 aaggcttttc ctcatctctt ggaggagtg gcaaaagatt ggctatacta ccttgctccc 240
 aggtccattt tcaactggga tgaccttaag aggggtgttct tggagaaatt ctttcttgca 300
 tctangacca ctgccatcag annagacatt tcaggcatca aacaacttag tggagagagc 360
 ttgtatgagt actgngaaag attcaagaaa ttgngtgcaa gctgtcctca ccacca 416

<210> 21315
 <211> 283
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21315

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 ttgaaatcac cgggtgggacg aggccttgca ngagctgtgg cttgagtgat ggctctttat 120
 ggtgggggttg atgtcccttg ccggacgggt gtcgagttgg agggggtttcc gacgtgggcc 180
 gaaaagctcg gaaggtgctg ggtatactga tgattattgt gatgggggtga tagtggtttt 240
 ggccaagcat gatccgacgt tatggagtga gcatccactt ctt 283

<210> 21316
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21316

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 aacctagtat ttttgaactt tcttttaatt tcttttatac ttcttggtta catatttgtg 120
 ttgtttaaat atttatttat ttgaactctt tttaaattgt taagattata ctttaattata 180
 agtttattat aagagttttt gtacccatga aaaaaaaatt gcccttaact cacctngct 240
 agtggacagc tcgctttggc gagtgaatgt ctgtagtgaa aaataaaaaat gggtgaaatc 300
 taatttcacc ccactctcat ttcacacttc ttcttccttc tttttgcatg anaccttagc 360
 cctcattctt ccaaaaactcg cccaagctac cttcttttcc acaaatectt catt 414

<210> 21317
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21317

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aaaacccaaa gaatgatttc gagattaaat caagatcaaa ttcaagaatc aagagaagtt 120
 tgattttcaag attcaagaaa agatgaattc aagttccaag agaagaaatc aagaagactt 180
 cacaatggga agtattgaaa agatttttta aaaaacaaac atagcacaat tttgtttttc 240
 aaaagagttt tcacaaaatt ttctatgtta ccagagtttt tactctctag taatcgatta 300
 ccagtttctt gtaatcgatt actagtggca aagtttgatt tcaaaagctt ttaactgaat 360
 atacaacgtt ccaattgatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcaat 420
 tactagtgca tctgaacgtt ggaattcaaa ttcaattgtg aagagtcaca tcctttc 477

<210> 21318
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21318

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 cgtcgaagaa cgggttcaaac ctttgcgaaa ttcttcacgg aaaacggttac ggaaacgttt 120
 cggaagcgcc tcagcttaga ttttcttcac ggaaacaatt tttctaagca aattcgaaag 180
 agagagaagt gcctaagggg ctgaaccctt ttcttctca cttctctccc tatttatagc 240
 aaaatagggg agatggttgc cgcccagctc gcccaggcga gccangttgc ttctccaga 300
 agcaacaacc ttctggagaa atcttctgga ggccccaagt gggcctgggt gctatttgca 360
 ccccatntnt tactaagtac accnctctg cttntttttt tgtgattctt ttttcgtaa 419

<210> 21319
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 21319

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 gagggttcct tgcattgtac tgaatcttgc tttcaatttc atagtaagta gtaaagtcct 120
 ttttcatgga gtatgtctca ttaagattcc cctgcatttc acgaatggag ggataaaaca 180
 tgcaattaca gcttattttg tgaaccaaag tgccatatct aggtttatga taagagagtc 240
 ttcatcatcc ctagcctcaa actttggacc taccctttca atatgggtca acttcatatg 300

cctttt

306

<210> 21320
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21320

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ctcacagtct ttagatttgg gagccaatcc aatccttggtg tccggattct cagccactta 120
ttatagcctc cgatgatccc atcactgctt cccctaagct ttctgtcctt tcttcacgcc 180
gcctcccatg ccttgccaac tccttggagt accctcgctg tgtggtcact gaaacctcgt 240
gcgatgaaag gcgtgatgct ttcgtctgat ggcactcctc tcattgggaca tccttcgcgt 300
gaagatagaa tcctgattct tccttccttc tagcgaggga accatttaac agacgccctt 360
ccatgc 366

<210> 21321
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21321

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tcttcttctt ccttcttgcc taaagattca aaggactaac cgcttgagaa ttcttttgat 120
tcttcttctt ccttttaaac aaaagatttc aaaggactaa ccgctggga tatcttttgt 180
ttccccttac aaagattcaa gggactaacc tcctaagaat tctttgtctt aacacattgg 240
agggtacacc ctttatggta caagtagagg gtacatctac ttgggttggt atactgagaa 300
caagagaggg tacatctctt gtggatcagt tcaagtggag ggtacatcca cttggatggt 360
caaagagaac aaggggagggt acatccctta tggatctttg cttgtaaagg attttacaag 420
gttattggaa atccta 436

<210> 21322
<211> 411

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21322

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aaacacaaaa tgtgatttgc aagtgaataa catgtgtgaa gcattcaaca atggtaaagt 120
gagtacaaag ataaaccaat tattactcta cttgagggaa tctgattnta cataagggcc 180
aaaattgtga agctgaggac tatcctcatg agctatgagg gttcaatctg tcccaaaatt 240
tagcaaatca ttgaaaaaaaa ataaaaaaaa gcatgtgaag catggtgggc acattggtgt 300
ggatgatgctg atttatcttt gtttgaggtg tcaagggcat ggaaaaantt gttgtgaatc 360
ttaaaanata gaaatgttct tgtagaaagt gggagctaac tggatcaatg g 411

<210> 21323
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21323

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tgagactatt gatgctgatg tgtcaagggtt atttttatatt ttattntttt atttngatt 120
gttagttggt agtttttgtt agaacatctc caatgcatga tgcttaaatg aattgcttaa 180
agttaaacia tgtttcttaa caattttttt tattanaatg gatgatatgt caatgctctg 240
tataattgag ttgtttaatt gattattata aaaaaagacc aattttttta tctaaaattt 300
aatgtgactc aagttaagt cttactttan aaactttaga gctgaaataa attcttgtat 360
aaagttctta aatctatgtg gcattaattg taggattcac aaatttaaga caaacaattc 420
atttaagcaa tcatacatga tagacgcttt tgggtggagaa attcgaaccc ccaact 476

<210> 21324
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21324

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attttgataa	tcgattacca	gtgcatctga	acgttggaat	tcaaattaaa	ttgtgaagag	120
tcacatcctt	tcataaaatg	ctttgtgtaa	tcgattacaa	ggatttggtg	aatcgattac	180
cagtgacaag	ttttgaacaa	aaatcaaaaag	atgtaactct	tccaatgggt	ttcaggattt	240
tctaaagggt	ataactcttc	caatgggttt	cttgtctaga	cttgaagagt	ctataaaaagc	300
aagaccttga	tttgcattta	aaacaataact	gacaaccttt	acaacaact	tttccacata	360
ttcttttact	agctntgaat	ctctttgaac	attttcttga	acttcttctt	ctt	413

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<210>      21325
<211>      480
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      21325
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<210>	21326
<211>	415
<212>	DNA
<213>	Glycine max
<400>	21326

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gctatgaagg tcataagcaa aacgaacagc gataacaaca aactcaaacc agtaacgaat 360
agacatgaat gagagaacca ataaaaacgt acgtgaatga aggagtgaca tgact 415

<210> 21327
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21327

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ttcgaagaat gaaggggtctg tgtttgaggg tggcgatgag gtggaggaca acctcggtgt 120
cagaggtggt gttgaagatg gagccgttgt cttcgagggt ggttcggagg gtcttatagt 180
tgacgaggtt gccgttgttg gccacgccga cggagccgaa gcggttaacc gcgacaaagg 240
gctggacgtt attgagcatg gattggccgg cggaggagta gcggacgtgg ccgatggaga 300
ggctgccgga gagctgggtc agttttgatt ggttgaagac ttctgagacg aggccaacgc 360
cggatgatga ttgatga 378

<210> 21328
<211> 391
<212> DNA
<213> Glycine max

<400> 21328

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gcactgcaag aaaaggggtc attaaggatg caaatgggt gtgtgatcaa tcaattgtgc 120
ctgcagtata agccaattga ggaggaacat gcttgcatth tgatgatgac aattcacaat 180
ttattttgaa gagaccagca atgacatctt atctggcagt caaagactgt aaaagatggc 240
attccatcgg ttttaattgg atcccagatt ttggatcttg tgtcatttag ttttaattga 300
ctetaacatt aactagtttg ttatttaacc tgctatgttt attaactatt aagaaataca 360
ttagagccat tacatgcaat cactctttca t 391

<210> 21329

<211> 445
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21329

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 tgggtagtgg gtgccagcac atggccgcct gctccaccaa tccaacttcc ctttcttaaa 120
 tcatataaac ataaggacaa atttgtaatc atttatztat caaaaaactt ttttaattca 180
 attattttta tagttgaaag ctagctatca gactaattct tctttttgtg tgtttgattt 240
 caaatccaaa atttacattt agagtaaaat cacattaaaa gattatctta tgtaatgtta 300
 caataaaaat atataaaaat aatactagtt tgaccaacat tactaatgta attctatggt 360
 tttctcta atcccccttca ttntcaattc aaattgcttc gacttgtttt gttcatctct 420
 gacatgtggt aattctgcca tatcg 445

<210> 21330
 <211> 344
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21330

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 ttagtgagtt tgtgcatgca tgtttagtct atcagaaggc taagatagaa catcagagac 180
 cctcaggtaa gctgcaaccc ttagagatac cttagtggaa gtgggacgat atctccatgg 240
 atttcattgt agggatacct angaccccca aagggtgtaga ttctatttgg tttgttggtg 300
 aaagattaat caaatctact cactttatcc ccatcaatat caag 344

<210> 21331
 <211> 464
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21331

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 agaagagttt gatacaattt ccacaagttt tatacacaaa agttagtcgt attcacccgac 180
 taacagtctg tcgatcccta ctatcacaat tgtctttggg aatatcccat gagctcttgg 240
 ttgaatgagt tttcttctca aatgtgcaag tgtgaaacct caaggattct ctttttcttt 300
 atatatatat tntttaaaca atcacaagcg tgcattgggtt ccattccaga atcaaaactt 360
 antagcaaaa ttagtcattc cttgatccac atgggcttta ttgggcttgt aacatgggtca 420
 ggggtaagag gtgatgcant cctaccccg c aagggtatcg gata 464

<210> 21332
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 21332
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 ttccctttcc ttgttttgaa gctcactaca agccttaagt gaaaaacat gatattacca 120
 tatccttaag gaattttgga gctttggaat tgttttggga ataagtgtgg ggggtttttg 180
 tttcattgga caacttggtt tgttgactat gcttcatgat gtattttggg tcatacttga 240
 tgtacattgt atattgggtt aatgttggac atgctgaatg aaatgttgtt tctcaaaggt 300
 aaaaaaaaaa aaaaaaaaaat caaaaaaaaaat aaaaaatcaa aaaaaaaaaag agagaaaagc 360
 aataaagttg agtgaataag atcttaaat 389

<210> 21333
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21333

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 aaatgtgaca acacaagtgc taccaatcta acaaaaaacc cagtcaagca ttctaggact 180
 aaacacatag aaataaggca tcattttctt agagatcatg tgttaaaagg tggctgctgc 240

attgagttca ttgatagtga gcatcaacta gaagaaattn tcactaaatc ttttgctaga 300
gatagttttt ttattagaaa tgaactangc atgttagatg catctagcat aaaatgacat 360
tctgttttgca tagtgtgtga tgcacattgc tactcatatc atttgttntg tttagcttgt 420
gtcccagttt attgattcat atgcatactc attagtag 458

<210> 21334
<211> 112
<212> DNA
<213> Glycine max

<400> 21334

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ggaataacac taaagaacga gacgttgtac acgctatcct tacgtgagac gg 112

<210> 21335
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21335

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agcatgggtg ctacctacac agtcttctta cgtctagacg aaccttcagg agggcccaga 120
tggttatggc tgatataaga atgcacatct ttactatata caccacttg ccgttcctaa 180
ggtgatccta ttctcgtaca gagatgcctc tgacgaatta cgctcgact cttgagctct 240
ttccggactg catccgaacc ttgcggattt catactcata cccttcattg actatcatga 300
tgctacgggtg cctcactaat tgtgcaggga tgcttacatt tgacaacgcg tgtgtcaccg 360
aaccgtgcgg acangtgcgt gatattacct ttagatttcc agcatgtacc ggagttccac 420
aattgcctac gatgggtgca tgcacctcca tcgacgtact tanatagatg tctacggcga 480
tagccacgac gacattaggc ttacagtgcn 510

<210> 21336
<211> 415
<212> DNA
<213> Glycine max

<400> 21336

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 ctttttttaa cttctcttct taaaaggaga gatgttgagt caaacacatt ttttaaagag 120
 ctcttaaaag gtttagcagt ttaattttat aaagagaaat gaaaacaata gttttcttct 180
 tcttttttta aagctagggtg acctgggtgaa ggagattttc aaatcaagtt gtcactctct 240
 ttctctcccc tctctcgtct tctccatggt ctttctatct ctctctctcc ccactttctg 300
 tctcactctc ttctgttct ctctctctt tctctctctc tctctctatc tctatctctc 360
 tcctgctct tttatctctc cgtcttccag ctctcactct cacaagtcac ctctt 415

<210> 21337
 <211> 219
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21337

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 gagtcatta aggaatatgc ccaaagatgg agagatctcg cagcccaagt cgtaccgccc 120
 atgacggaga gggagatgat cacaattatg gtagatacgt taccacatt ctactatgaa 180
 aagctgatag gctacatgcc agctaactnt gcggatctt 219

<210> 21338
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21338

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 gacactacta aaaaaaatg gcatacaacc tcctcccata aatacaaaca tcaatgtaaa 120
 tttagagcaa gcttatgcgc atatttcctt acgaacgttc actngcacia gacattctat 180
 taactaagaa aaatgcacc atatacaatc aaggcagctt cgttacctag attatttaca 240
 tgtacttcca aggtgtattt gttacttaca tcacacacat ttccttggtt aaatttacat 300
 acatgcatac tcaaagcatt ntgggggtacc aaaaattgca catgtgcaca tcttggtatt 360
 tctaatacct gtacatgcac aaacttcatg atgaatcttg actatctaca caat 414

<210> 21339
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21339

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 cttttcttag atgcaatttg taaaatataa gacaaaacac aaaagattag cacatgttat 120
 tttcacaaaa acataaaaaat aaaactgaaa ttttgattaa gcgcttagcg cagcaggctg 180
 agcttagcgt gccttatgaa attttacaca tgcgctaaga aaaacagact ggcgcttatac 240
 ctgaagacac ataaaaatatt ttttctacag attaagctta gctcaacagc tgagcttagc 300
 ctaagtctac aattttgaaa accaaagaaa gttggagctt attgcagcat ggcgcgctta 360
 gctcggcctc atcagaataa cactcangct taacgcacag gcgcgttttag cctaactaca 420
 aaaatttaaa agacaatgag agagttgagc ttagcgcatac ttggcgctta gctcaacaca 480
 caacat 486

<210> 21340
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21340

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 aatgatatga aacgaaaaac aaatggaagc aattccatat gcatcagttg ttgttgcatc 180
 tactatggaa gctgaatttg tagcatgttt taaggctaca attcaagcta attggttgca 240
 gaactttatt tcaaggctng aaattgtcga cagtattgtt aggccactat aaatatgttg 300
 tgataactct gcagtagtat ttttctaaga atgacaagta ctctaagggt gctaagcata 360
 tggaattgaa gtactntgtc gtgaaggaag aagttcagaa acaaagagtg tcaata 416

<210> 21341
 <211> 443

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21341

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tcctcctact aggacgactg agataactgg ggcaaataaa gaggggtgagg atgagggaga 120
aaccatgct gtgactgcca ttctgtacg gccaaagtttc ccaccaaccc aacaatatct 180
ttactcagcc aataacaaac tttctcctta cccaccaccc agttatccac aaaggccatc 240
cctaaatcta ccacaaagtc tgtctaccgc acttccaatg acgaacacca cttttagcac 300
aaaccanaaa caccaaccaa gaagtgaatt ttgcagcgag aaagcctgta gaattcaccc 360
caattccagt gtcctatgct gacttgctcc catatctact tgataattca atggtagcca 420
taaccctagc caaggttcat caa 443

<210> 21342
<211> 387
<212> DNA
<213> Glycine max

<400> 21342

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ctcaagaacc tcatttttct cattatagga cgtatagcaa tgggtggaaac taatgttacg 120
tagaacggaa agcgatctcc catgtttgct cctaataaag ggttgcacaa aggtgatttg 180
ctattacctt acctctttgt tttaggtatg aacaaactct cccacattat cttgaaagca 240
gtggaagctt ggaaaccttt ttgtatggga agaaagggcc ccctcatctc gcacttcatg 300
tttgcggatg acttattatt gtgtggtcag gcttctacta agcatatgaa atgtactttg 360
gacactatgc atttgtttgg cgagatg 387

<210> 21343
<211> 562
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21343

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nnnttgatgc ctctgtggaca gccacccaaa gaagcgcgca ggaagagcaa cccacaaaaa 120
 agaaaagacg tcgttttaaaa acacaaaagc cgccaggggg aaagcgcaga agcaacaccc 180
 aagagngagc aaaacaaaga cacagaggag gagaaaacca cggccgagga agcaacacaa 240
 agagggcccc acaaggagga ggaggaggac gctaaaagac gggcaaacnc cacacccgaa 300
 aacaagaaca cacgcgacca ccgcaanaag acgacgcaaa cggcaaccaa anaccggcaa 360
 aacaaacaaa ccaaacgaaa agaaggcgac accgaagagg accccgggac agagaaccga 420
 agacagaaag accccgcgga gggcccagaa gatagaggga cgaacaagag acgagagcga 480
 caccggccca gcgggaaacg acacaaaagg acataaaacg gcgacacacg ccagccgaaa 540
 gaggaacaag accacaaaag ag 562

<210> 21344
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21344

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 gcttgctcc gtagtgatg atattgatta gttttctcag tcttactgta acgatattgc 120
 catgaaaaaa ttcattgaca agaaaaactg gagaaatatt ttaagtctgt cggaattcgt 180
 gattcctgag aattaaattg ttttttaaat tgagcaaatt cttgttgaac ctgctctgag 240
 aaaatctccg gaatagggcc aaagaaatcc caccattgta agaaccaatt tgggaaatta 300
 tagatttgtg tggttttgaa atatattaac catgagtgtg tgaagcgggt gtnttggtgc 360
 caaaaaacct ttgtccaagc atcaacataa tccaatagg tataacctac 410

<210> 21345
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21345

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 tttaattcta ctcaatatcc tcaatattag aaaataaatc aataaaataa gaatttaaca 120

tgtccttaat ttgatgatcc ttctctatcc attgccctta agtatttctt aacataagaa 180
 tcttatttct ttttcttatg ttgatagtct tgagatgcta gaatctctgtg tttctgtctc 240
 catcttggat ccacttgggt cttgattggt gaaaccaatc aagctcctcc tgcttaagga 300
 ttgcatcata ctcatctaga cccttttcca ttcacaacca anattgggtg gatctccctt 360
 cataaatctt tttttggatc tctcccaacc tattaatgac tctctgcttt ctatatctaa 420
 tgcaaccaaa cacctttctc ttc 443

<210> 21346
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 21346

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 tgaatgtatg tatacatgat tttgatgatg tcaaaagaag aatcaaacia ggctcatttt 120
 gcttcaagat taatacaaga ttgtttcaac aaacaaagcc ttgattcaag atttcttcaa 180
 gatcaagcct tgcctcacia tgaaagggtt caagtcattc aaggcacatg taattgatta 240
 ccaatacatg taatcgatta ccaatgggtt gaaagtgtgt aatcgattac acatcatatg 300
 taattgatta ccagagactc tgaacgttgg gaattcaaatt tttaaatgaa gggtcacaac 360
 tgttcaagat aaacaactat gtaatcgatt acactaatte tgtaatcga 409

<210> 21347
 <211> 630
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21347

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 tactcaagcc ccttgaagtg acangnnttg actanatacc tnntgtaatn ntagttaaag 120
 ttttatgata tactnntggt agtnttgtca natannattg anacaccana tttcatgtgg 180
 ggtagaagat gaaactcagt atttaaactt nnnttgtaac cttaatattg gggttccctt 240
 ttgtgttttn tcttgggctt taanagtgga ccatanaggg gtttaannna tttgaatttt 300

tgtnttttgg aaaagtatct atttttgttt tacccaaagt ttcttcttca aatagataac 360
 ctntgttnnn tgtaaaaaa aagaacttga aaatatttct ataaaccaca cattcaatct 420
 tcttcttctt gtgatanntt gcatttacia tatatatata tatatatata tatatatata 480
 tatatatata tatatatata tatatatata tatatatata ttctaacaat catctaattg 540
 tctaaggctt aattaagagt agactgtgcg cacaaagaaa atgcacatat cgccgcacaa 600
 tctactacaa gtcacattat tcttaattcg 630

<210> 21348
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21348

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 agagagagag caaacacaaa gcacaaaatt cagagttccg aaacaagtac aggaaaatct 120
 taaatattca tatttcataa ctttttactt ttttaggagg cttcacgcaa ttcaggttgt 180
 ttttttcagc taatgctgta gggcccttat taattgggtt cttacttcca gttttaacga 240
 tgctttatct cagtgcacat ctccctcaac ctcaacatat ccttgctagg accactatga 300
 tctcaactaa ttnttttatg taacatatag ttatatntt caatttataa aaaaaattaa 360
 tgaaacttga ctacatgtga agaagaaatt agtagaaacc agtctc 406

<210> 21349
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21349

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 tatatgaagc attatgtaat gttgttttga catatctata ctactgcacc tacattgtac 120
 taaccatata tttctttata atgcaagtat actaaactac attttatgaa aatgtgtgaa 180
 agtctatgaa ttcaagtgtt ggtccctgat atctatataa tgacaaatgt atgacattga 240
 tttaaccgct cttgtatagt cagattacat caagaacttt gtattgataa ggctactgaa 300

atggtctcct aagattataa gaatcatgtg atgtttaatt caccacagtc atactgtgtt 360
gaccaccgcc aaatgtcgat ttttacgaat ttttctaagg atgaccatgc 410

<210> 21350
<211> 388
<212> DNA
<213> Glycine max

<400> 21350

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gacaatagca tcatttcttg cactgaattg ttaggagttg gaagccatct tctcaatcaa 120
attcctagcc tcagcagggg tcatatcacc aagagctcca ccaactagcag cattaatcat 180
actcctctcc atgttgctaa gtccctcata gaaatattga ggaaggagtt gtcagaaat 240
ctggcggtga gggcagcttg cacacaattt cttgaatctt tcccagtact catacaagct 300
ctctccacta agttgcctaa tgctgaaat gtcttttctg atggcagtggt tccatagatgc 360
agggaagaat ttctccaaga acactctt 388

<210> 21351
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21351

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aattagagtt tatctctttt atcttagtga gagtgattct cctaaattct tgagtgattc 120
aagaacaccc tggctgtatc aaaggacttt cacaaccttt gtgtgttgcc ctgcaggaa 180
agagtgattc tttccttcct atcatctcca ccctgtttct ttcaaaccac aattccagaa 240
aatccacctc tgcccagaat tatctcgtgg ccataactcc cattttacac actcaaatta 300
agtgattggt gagcctaaat tgactttcaa aacgagacct ttcacctcgt tttgaaatca 360
cctcatttgg agccctgtag cntagttat tgcatttct atatntctgt ccagccacca 420
cttaacctac attntaccat cccattcatc cattttatgc caagaaccac cttatta 477

<210> 21352
<211> 414

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21352

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 cttatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagaggaga atcaaagatt ccaagtcaca aaatgtcaaa 240
 aactttttatt ttcaaaacaa ttaccatttt cttgaacata tcctatgatt canagaanag 300
 catgcaaagt cgtacatgcg cacaaaattg acccaaaata ttaaactaaa aatccgacga 360
 aactaacann aataacanat taacacaact aacanattaa caaaaccaac aaaa 414

<210> 21353
 <211> 395
 <212> DNA
 <213> Glycine max

 <400> 21353

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 acgcggataa ggaggctaga ggaagggatga tcgactcgtt acatcaagag gcaacaatgt 180
 ggatggaccg atttgcctctt actttgaacg ggagtcaaga acttccccga tagctggcca 240
 aggccaaagc aatgggtgaac acctactccg cccccgagga gatccacgga cttcttattt 300
 attgtcagca tacgatagac ttaatggccc atataattaa gaacctctat gaagtttgga 360
 ttgtcactca catcttgact agttataact ttctg 395

<210> 21354
 <211> 352
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21354

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 tcacagtctt gagagcttcc cagaaatatt aagaaaaatg gaaattataa cagaacttgt 120

223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904

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<223>      unsure at all n locations
<400>      21355
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<210>	21356
<211>	377
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      21356
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8952

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377

<210> 21357
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21357

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agtcttctgt ttgccaattg catttggaat ggcctgttcc cgaaaatact tccttctctt 120
gagcttctctg atcatcctga tcttcttcag ccgtttgggg tcaacaactt tcttgctttt 180
ttccaatatc tctttccttc cctccttata agcttgaatg gttttacttc tctgatcatc 240
tggttaataaa gccaaacttg aaaatatctt gggactcact atctcaagtt tctcagtaat 300
ttccttgaat gctggaacaa ggccacgcct tatgaagcac ccttctataa gccgcacgt 360
atttaactcg gggagactat gagcatcttt taactccaga tcctagcaaa atgggtgagtc 420
atttaaccac atcctgagag agtgagcc 448

<210> 21358
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21358

agcttattgc aatgggttga ttagcatggg cagaaatgtg tcagcattaa taggtaaata 60
tgttcctcac attcctgaga aatataagga cccaagtact ttctgtatac cttgcattat 120
tggaacaac aaacttgaga gtgccatgct agatctagga gcatcagtta gtgtcatgcc 180
tctgtccatt ttcaattctt tatcttttgg atctttgcaa tctacagatg tggtgattca 240
tttagcaa atagaagtgtt cttaccccg angtttcata gaggggtgtg tggttcgggt 300
tggtaaactt atttttctg ttaattttta tgttcttgat at 342

<210> 21359
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21359

tcctctctcg gtcgacgctc gcctccagcc gcttcgtctt gtgaacgagt ctgtcacact 60
cctcagtgag agtagtcgtt tcattcgcca gatgagtgac gaggtcgctg agctgggtgct 120
tgagagcaga aacctcatag tccctatctt tgaccagcaa gtcgaagtgg aggttcattt 180
cctggagctt gttcttgaaa aagacagaaa cgacgacgtt ttggaggctg aaggtgaggt 240
tggtgttgaa tgtgacggcg gactagagag agtgaatttg ttggagggtg tgggtggtct 300
ccttgagaag gagggcattg aggtttttga ggttctgaat ctgcagttct gaggaggagt 360
catcaaccat ggagatgggt tgttgttctg ctttggggtc cagagattcn gacatacata 420
gacattctct gccagagaga ggg 443

<210> 21360
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21360

agcttttctc agtcgtttgt aaggatgatn ggggtgtaga aagcggcgat gcctactgta 60
gactgttttt ctcccatggt tcagttgtgt gtaacttgta ttttcttcac agatggggca 120
tgcatgatga cccttaacac tgtaaccgct gagattccca tatgctggga agtcattaat 180
ggtagaaaaa agcattgcac gcatttcata cgtctccttg cgaaacgcat canatactac 240
aaccctctcg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300
gtcatttcct ggctatcttg ggcccgatat catcatagac aacatcatgt attttcgctt 360
catg 364

<210> 21361
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21361

tggatattca gcttgacgag ggatcgaagg tttagtaatt tatgctactt cttagaacac 60

aagagcacga ttgattaggg aaatatatattt ccatgcatca gcttggtttgt tagaaagatc 120
 caacatatct actgtcgcaa cgtgcccttt tgcgggagag cgaaggcgag gctcacgggt 180
 gcgctttcca aaggaggaaa gatgcgcgga gtcgccacca acgtttatatt gtggaaaacg 240
 tcgggaaaac cgaaggaaat cgggtcaaaaa tgaaaattct aagttcggga gttgtattta 300
 cgtttgagga aggtattaga acctctcacg tttgtctcan aggacaacaa cctatttttt 360
 agaattgtgg aaattgtgtt accttaactn tatttctttt tattttttga ggtcgacaaa 420
 agtggggctc ttgctcctac gtac 444

<210> 21362
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21362

agcttgtagg attattgtgt acttatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag tttccacat ccacaatgcg ctcataaacc caccatcccc tgttgccac 120
 ctccatctga gctcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttacacaaca tccaagcaaa acaacattca aacagcacia 240
 gctatcacag ccaagcaaaa cagggcaaag gcagaaaact ctgctcaaca caccaaccan 300
 aatcatagct tttctcactt aaagaccca gtaacaattc cctcgatcca attcgttaac 360
 cgggtggatcg actctaaaat tntactggaa ggtctatata cataagacta ca 412

<210> 21363
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21363

tctcaaggaa gttttctcaa gaaatcttct caaggaagct ttctagtcta taaatagaag 60
 catgtgtaac acttggtgta actttgatga acgagactct tgtgagacac aactcaaagt 120
 tcaactactc tccctttttc ttccttcaat ttctgtctcc cctttctctc tttctctacc 180
 tctttctttt cctccattga agcatcctct ccaagcttct tatccaaggc tcatcttgg 240

ggtgaagctc cttcttccat ggcttattcc ttaatggatg gcacctctc tcacctcttt 300
 tcctttgtct tccgctgcat ctccatgggtg gaaaatcacc attaaaggat cccattgaag 360
 ctcanagatt cagcctccat agaagcccca caagcaagtt tccatcacia gtgatttgga 420
 tcaatggaaa aaataagaca aatcatac 448

<210> 21364
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21364

agcttttaca cattatttta agaaatactt agtatctatt ggtgaaaaat ccgttgtgcc 60
 tgccataggat ttctggcctt gccagctttc tttgcttagt tgttggcatt tttatattca 120
 ccgcatgctc tgcatttctc tctgtagtct cccttaccag agtttatttt acattcttat 180
 ggagtattac actactcaag taagactgta acacatggca ctgcgggtga ttcaaaataa 240
 attattaaat taaatnttaa cgggtacaaa actttgtaga gtattagctg gggattggga 300
 gcatattaga atttctctc tctcatagcc tgcactcttt gctctttctt gctcccacat 360
 tatctnttca tgt 373

<210> 21365
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21365

actcaagctt atcttttgaa actatccctt atagacttat agtaagtttg tgtgtggtct 60
 tattctgctg acaaaaaaaaa tataattgtc gatgaagacg aagacaggat gcggaggact 120
 ataaaacaaa acccatagta aaggtaacga cgcaatgagg agaaaaattc ttgtgcagaa 180
 aaaacacgac agctaattcca acaattattt aataataaat taagttatca aatacactaa 240
 taattaatta atgggcaaatt tcatatattt cattttcttg tatctcactt ttattttattt 300
 attgcacaat catatgtatt actaaatccc tttgttacaa tttactggta ttagttaatt 360
 ntttaataca ataaacatct ttctgattnt tttaatatTT tttaaaaatt attctactta 420

tatatntttt ataataatta aatcttatat a

451

<210> 21366
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21366

agcttatcta ttgaatgtgt gttttacttg ctccgccaaag aagcttcaca aggaagtttt 60
ctttcttcat gtattttggc atgtgggtga actttggaaa agtgtaacac tagtttctca 120
aagaaactat ttacgctata aatagaagca tgtgtaatac ttgtgggaac tttgatgaat 180
aagtcttatg agacacttca atgttcaact tctctcccta tctttccttc attcccacac 240
cattttttnt ctctctctct ctcatctctt ttctccattg aagtttcttc tctaagctac 300
ttaatcaaaa cactctcttg gtggtgaaat ttcttcttcc atggcttatt ccctagtgga 360
tggtgtctcc tctcacctct 380

<210> 21367
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21367

ctgaacctat ttggactgta ggcacaaaat tcatgttttc ctttttattg tgcttggttg 60
actaaaacta ttatgctttt cctagaatgt aaagtgtaat tgcacatatt ctgataggag 120
ttacaaagaa ttgatggcca attgcactat tcttggaaga ggtaaggctc gttatagcaa 180
aaagcttgag aagggttaaag agaagatcac aaaactgaag gtaagtatgc tccagaaata 240
cattcaaaac tgcaacagct cttgaaccaa atacattcaa aacaaaaagg cattatcgaa 300
gcaaattcaa ttgctcagaa ttcaaattag aaagcttatg gcagaggagc atgatttgct 360
taanactgag ccaaaataga acacgaatat gatgttaatg ctagagaata tcaccacaac 420
cacccctta caagtacact acat 444

<210> 21368
<211> 345
<212> DNA

<213> Glycine max

<400> 21368

caagtgtcta acagactaca tgttatgtgc caaaagttga gctttcacat agaaaatgaa 60
attacagagt catttacata tactcttaga atgatgtagc aaaaacaaag cttttttggt 120
aatttcactt caaatcagag aacactctta acgtagtaag actagttaga acaaccgcat 180
tattttttct ttaatttaca gtagtacaat tatgcggaaa cctcagttac tgcaagagca 240
agagtctctg gcacagtcac ggatgggtca gccactactg gaggtgcaac acaagactgc 300
aacaactgag tgtaatgaaa ctcaatttgt agcctatgat gaaat 345

<210> 21369

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21369

aggggggagta tgaaatgagt gaacgcaata tatcacgcat atacattact tatatcttga 60
tttcaggaat taaattgtca tcataaaaaa gggggagatt gtagaaacaa agactttgtc 120
tttgatgttt tgatgatgat cgtgatgata tgatgaaaac gcgcttctca agtttaattc 180
aagacaagga tccaagaata caagatacaa catcaagaag atctctagta ttttaggaag 240
gaaattccta attganatag caaaagggtt ggccaacaaa ttacagttaa naagtctttt 300
tcaagagatc tactctctgg taatcgatta ccagaggatg taatcgatta ccagtggcca 360
aatggtttac aacaaccatt aaaaatttg 389

<210> 21370

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21370

agcttctatt tactgtgagt gattcaggct tagtgccact acatgcgcta agcgcacttc 60
caatgatttc aaaacagaac gatgttggcg cttagcgcac cttttccgcg taagcccact 120
tagcgcacatc tccacgctaa gccactgct taagggtgcaa cttacaatga agatgttggg 180

cttagcgag cgatgtgag ttagctgaac cattcagcca atcaattang ggtctttgtg 240
cttagcgtga gcaagctcgg ctttagcggt gaaaagatgg cgcttagcac aaggttngcg 300
cttaacggat aagcaatctg aaattnttct aagtcatttt ctgcttatct cttcacacat 360
aatttaaaaa cctntntntg tcattactac ataagctgaa at 402

<210> 21371
<211> 436
<212> DNA
<213> Glycine max

<400> 21371

tgcgcgccag ctgcgccagg cgagcaaggt tgcttctct atattcaaca accttctgga 60
ggaatcttct ggagggccca agtgggcctg gttgttattt gcacccccct tttactaaa 120
tgcaccccat ctatTTTTTT gataattctt tttcgtaac gttacgaaac tttgcgactt 180
tcgtaacgat acttattttc cttccgcaag gttacgaatc cttacggatc atgtatttac 240
tttcttttag ctttcgaaga agttacggaa actcacggat tgcacaaaaa cacctctttt 300
cgatttcgc cacattacgg aatttcacgg atcgcgcaag cctgcttctt tttgatttct 360
gagacgtctc gggactttat ttatttcata tcatcaagta ataatccccg gacgaaatta 420
tggtatgaca agcatg 436

<210> 21372
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21372

agcttcttgg ntntcgaagc tagatttgcg tcaaggcttt caccaaatac gcatggcgga 60
ggacgatgtt cataagacgg ctttctgcac gcaccaggga cactacgaat tcagagtgat 120
gccgttcggc ctctgcaacg cgccgtcgac gttccaggcg gccatgaacg ataccctcaa 180
gcctttcttg agaaaatacg tggccatttt cttcgatgat attttggtgt ttagctccga 240
tttggacacg cacgtcacac accttgaatc cgttctagat accctctc 288

<210> 21373
<211> 440

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21373

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 gtctacaagt acatgccctg nggtgctctt agtcaatatt tgttaaattg gaaagctgaa 120
 gggttacaac ctctggattg gagtggaaga caaggctaag aattgccttg gatgttacta 180
 gaggtgtcaa atattctatt gcatgagcaa ataaaatTTT atccatagca atataaaatc 240
 atctaccatt tcgttgggag aagatatgca tgccaaagta tcaaactttg gattggttcg 300
 gcttttacgt gaagggaaga attcatgtca aaccaaacta aaggctggaa ctattgtata 360
 ttggcaccta agtatgttat gagggacaca ttgcaacaaa ggtggatgta ttagtttca 420
 atgcaatcct tatgtagatg 440

<210> 21374
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21374

 tttcaagctt tttatccaag gcaattcttg gtggtgaagc tccttcttcc ttggcttatt 60
 ccctagtgga tgggtgctcc cctctcctct tctcctttgc cttctgctgc atctccatgg 120
 tgaaaaatca ccattgaagg acctcattgg agctcataga tccagcctcc atagaatctt 180
 cacaagcaag cttccatcag ctgtcttact ggtttagcct caccctctaa atntatccga 240
 tgcatacatg tggatgggct aataccacca atgtccacca nggtccaacc tatagccttc 300
 ttatgcttct tgagaactga taacaacttc tcctcttgct catcaactag ggaggcagat 360
 ataattactg ggaaactttt gttatcatcc aagcaagcat 400

<210> 21375
 <211> 422
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21375

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 ggtaaaacta tgatcctggt tttgttaacc gttggatttt catgaaattt ggatatgttg 120
 ctcgaaattc aattgggcac accgttggga tttgcgagat aatattcttg gagggagaaa 180
 aaggaatctc atgaagacaa tacaagtgga ggtttcaatc tcttctccgt ctctctgacg 240
 tttgggaatt ctattggagc agtaggagga ataactgaag gaatctcang gaaccgctag 300
 agatgctgct atccctggct gaagacacgt gagtccgctc agaggtaagg gatgagttat 360
 tcacaattgg gaattagtga gaacatgtgt agggatcctt agagatatca attggaatga 420
 gt 422

<210> 21376
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21376

tgctcgcaag cttttgcatt gcagnganga cctatcatca aagctgggtt tggaggtcct 60
 tttgagaact cgcaatgatt gggaggcggc tttcactttt ttcttgtggg ctggcaagca 120
 accgggggtat gctcattcga ttcgcgagta ccattctatg atctccatcc ttggcaaaat 180
 gaggaagttt gatactgctt ggaacttaat tgaggaaatg agaagaggta taactggtgc 240
 atctcttgct actccccaca cactgttgat tatgatcagg agatactgtg ctgtacatga 300
 tgtngcaagg gctatcaata ctatctatgc ttataaacag tataactctc aagtgggcta 360
 gatgaattca taaccttctt tc 382

<210> 21377
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21377

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 ttcagattgt tgtaattcg cgtcacagta gtaatatgtt gaataagtta ttttagtta 120
 tccttaattt tttattaact gagaaatctg tttagatgca aaagaataag ttttttttag 180

taattgttaa tgtctttttg aaacactttt taaaataata tcttttaaaa ccttagtcac 240
 taactgttta tattttctct cattcatata tocaatatat ttatctaatt tattaggtac 300
 actttgtaaa taaatcatta ataatttttt tttcatttta cattttcagc tac 353

<210> 21378
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 21378

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 cagatatcat aagaaggggg gttgaattaa gatattccaa actacttccc caattataaa 120
 tctatatcac tttttattca agttataaat gcccttaata atgaacttct taaatattga 180
 ttcacataaa acactctgaa tatgactata tagcaataat atacaaagga gattaagaga 240
 agagaaagtg ccaactcaga tttatactgg ttcgggccaca cccttggtgcc tacgtccatt 300
 ccccatgcaa cccgcttgag agttccacta tcttgtaaata gccttctaca agctctaaac 360
 acac 364

<210> 21379
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 21379

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 atagagttac agacatcttg gaattgatac atacagacat ttgtgggtca tttcctacac 120
 cttcatggaa tgggtcaacaa tattttatat cattcataga cgattactct agatatgcat 180
 acttgtttct tatacatgaa aagtcacaat ctttggtatgt gttcaaaaca tttaaagttg 240
 aagttgaaaa tcaactcaac aaaagaataa agtgtgtcag atctgaccgc ggtggtgaat 300
 actatggcat atatgacggt tcaggtgacc aacgtctggc gccttttgcc aggtacctag 360
 aggaatatgg aatcgtccca cagtacacca tgccgaggtc acctatcatg aatggtgtgg 420
 ctg 423

<210> 21380

<211> 397
 <212> DNA
 <213> Glycine max

<400> 21380

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 attgtaatat tttcatgttt gactaccttt attgatgttt atgggttgggt ttgcagacta 120
 agacactcct tggatatttg agagaatcaa gacatgaagt gtcttcttca agttactttt 180
 atcagccaaa aaaatattat taaaataggt accggcagta ccatagagac aacaaagcag 240
 tgtcacatag ttacagaaag agaaaacccc aaaagtagaa gatatctctt gcgtaactaa 300
 gaacaacgga taaaagaaca ccaaattaac cctcatttct aaagatgtaa agaattgac 360
 tccttctaata aacttcccca cacctcaaca tgcacct 397

<210> 21381
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21381

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 aatatatatg tgaagggtag aggggtgtcac atcatacctc ccccttttca ttttctctca 120
 ttcttatttt catccttgta tccatttacc aatgggtatat gcacaacca gaccagttga 180
 ttgttcgttg ttgcgcttat aagacaatca tatttcaaata caagtgtggg aaggccaaga 240
 gagaatcacc catccgaggt atacttctgt ttgggctttt agccacttgg atcaaataga 300
 taatcatgta aaaaaatcta atcaatttag ctgggttcgg acatattata aatgttggaa 360
 aagttgatat taaccaacat ttgggttagtg cggttggtga acgttggaga acagagacag 420
 gcaaccatta ctta 435

<210> 21382
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 21382

agctttataa cagatttttag taatgacca ctaacctaga attaaaataa cttaatgcc 60

ttaacctatg gaattaaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaacccaaa 120
 agtcaccccc aacagccaac aagtcagcca ccatttgggtc tcccaaaagg ctgatgccta 180
 tgttgccaat tggggccctta ttacaacttg aactaaacct aactaaagcc ctttttagttg 240
 attaacccaa aacatatattt tggtcagcca actttacaag gattggggcaa ttatttagac 300
 aaactaaaca c 311

<210> 21383
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 21383

aaagctctag atgaggggttc actgtaatca tgcaagtgg agacctagca tgatcccaga 60
 ttcacctccg ctcccttatgt tcccatgaac ccgggtatag ggcccttttt cactcacagt 120
 gtgtgcaaat agtgttgggtg tttgtgtgca tcaaatgaat aaatatttac cctatgcata 180
 cattttaaaa tgcactaaaa gcaacaaaga gtttatatac ataagaacat aatgaaggga 240
 aaccaacaaa gggataagtc atggtaaaac attgcacaag attaaatggc ctaactctct 300
 aaaaacaatc cccagtggag tcgccaactg tcgcaaccta cccttcggcg ggagggcgac 360
 gcgagactcg cgggatgcgt gttccacgaa aggaatacgc gcggagtcgc caccaacggt 420
 tatttgagga aaacgt 436

<210> 21384
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21384

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 acaagataaa cgatatacga tttgaaatgc gtgcactcat ccttactccc ccttaaattt 120
 gtaatttatg gcctaatttt tagataaaat ttacctttag tttctctccc cctttggcaa 180
 catcaaaaag tcaaaacgac cggagaaaac aacaaatcca gagaatatcc aaagcaagta 240
 gcttaactcg tcaaaaaact aaagcaaaca caggctatat atccaaagaa nattataagc 300

caagcaaagt ctaaatatcc aaaccaaagc at

332

<210> 21385
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21385

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gcagaatcat aaaacggaga tggaacaaga ggaggaggat aatgcgaagg gtatgcaggt 120
ggtccttggg gctgctgctg ctgctgctga agtagaagat gaggcggggg aggggcatga 180
gggtgtaatt gtggaagtgg ctgttgctgc tgctgcaggg caggatgata agggaattgt 240
tgcatagggg ggtgtgcagg accaggacct gnggggataa aaggagaacc gtgcattgac 300
gaaggaaact gctgatgctg gggatgaaat ccaaactgct gctgttggtg catattagca 360
gcttgctggt gttgctgagc atatgccata gcagatgcag ttgcataatc atgaccctgg 420
cgctccataa cctcaacagc act 443

<210> 21386
<211> 350
<212> DNA
<213> Glycine max

<400> 21386

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gtttacttac tttttaagct gcagtttttg tactatgata tttgtactca ggcttggttt 120
atgcacttct tatgctaaaa ctgggttttc ttttaataaat acatttcttt ttgccttttt 180
aaaaaaacac gttgatttat ggaaatttta ttgtcgaatg aaattgttta tttaatgtac 240
gaagacaata aatgcacaac tttgatttcg aaacaacttt tcagaaatcg tcattcatgt 300
tgaacttgca gctcttctgg aagaacatgg agggacttga gatctgatat 350

<210> 21387
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 21387

taacacatgt agcatgaaac cttanaatga ccaacatgtg tgttaccctc tttgttcagc 60

cgctaggggtt tgggtcccaa tgcaattgac ttagtcattt atcgtgtatg gcaaacaact 120

ttgcttgatg agtttaaata tagttacatc caacaccaag atattagatt gtgtggcacg 180

catatTTTTtA tttaaaatta attccaaaaa ccattggaaa ataaagggtc atcaatttat 240

atatagctcg tgtgttaaata gttttttata cttctgcttt ggtgctgctt ttgaaaatca 300

ctactagatc tnttggactg atctgtgata aacttgggtg tcatgttaat ttatttacca 360

taatagtata atgttaggga acaagaattc gtgggatata actttggaaa aaaaaaaaaa 420

aaagcgctgt cat 433

<210> 21388

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21388

agctttgcat acattatatt taaaagaaag tagagtaatt atttaataata ctttctgttt 60

agtttttagat tttcccttac aagtctact actaaaattg tgagacgcgg ccaactaaac 120

cccgaaaagt aataaaatga taaaagtta tttttttggt tagataaaaa tgttctttga 180

aatccaagt tgttatttat ttgagtcaa aattctaaat gttgtgtgac ttaaataaaa 240

atattagcat atcttgaggg actaaatgac aataagtatt aagtttagga aataaactga 300

tacagtaagg aatttcatta tntactttta gggattaaat taacactatc tcacactttt 360

aggaaagaat ttgnattatt atttatctta natatttaaa ttaata 406

<210> 21389

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21389

aactcagctt acactgggcg ggacagaaat tggtagctgg ttatagtata tgttgagatc 60

actggaaaca cgaataatac ctttcttata attaacaggt gtgaagctca aaggcagacc 120

taagtcacca tcaacagcta caacatcaag tggacaatct acatcggttc ttgccgaagc 180
aaggccaccg atatcggagg aagccggaac gatgtagtaa atcgaatcag ctccaacttt 240
cttccccaat gcgtccagca ctggctcgga tgcaggacca gctagtgcct ttgtgatcaa 300
ggcaaacaca aggaccaatg ttaccaatgt catcttcatt tttatgtatc taattntgtg 360
tttttgtaac ttgtaatgga tattgaagaa gagggatatt tatatatagg atggngattg 420
ctctaatacta tgtacccatg tgcacc 446

<210> 21390
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21390

agcttttatg tctgagtggg ctgcgccagt gaaacatctg ctttaacccta aagggttttc 60
tcaagtttta aatgaccttg ggatagattc ttgaaatctc ttcgtaggtt tttataagct 120
tttgagacaa tatatgagta agatagaagc tcatgataag cttttctaag agatttagga 180
tcatcaaaat ttacctcatc tttttggtat aactcanacc cttcaaaagt tatgtccgcc 240
atcatccata tgttggtctc ttcacgtctc tccctcgaca aagtgtcgtc cagggtcttct 300
catgtactca taagccctt cttttcttta gtgctaaaga atntcttcat atcttgattt 360
ttctctaaat ctggacattc agacttgaaa t 391

<210> 21391
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21391

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tataatgata tgtacaatga aaaattacca agtaaaacttg ttggctacta cttcagaacc 120
tactcgtaaa tgatacaaaa tctattaacc atagtttcta gttctcagtt gggtgcacta 180
agtatgggtg cttcttaata gtaaaattgt tttatataaa tcccatgatc aaggatcaag 240
tttaagggtca aaacatgctt ttgaagaaac ataattaact gcataacaat agtaaaaaag 300

aagcaataaa aaaggacaca acacatcaag gagttatact agttcaccca acttgggcta 360
 caccaatccc tacaaatgta ggctntccac taaaaccaag catcttgtgg tattctttct 420
 ttcttgaagc cttcaaaggc tcctacaact 450

<210> 21392
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 21392

agcttctcga catatgatgc gcccgaaatcg gacatccgtg tgaaaagtta tgaccattta 60
 aatttcgcga gagttttcga tgtttaattt cgagcgtatc gatatattat aagcctgagt 120
 cgtacatccg tgtgaaatgt tatgaccatt tgaatttctc gagagcttct gttgttcaat 180
 ttcgagcctc tcgacatatt atgcgcccga atcggacatc cgtgtgaaaa gttatggcca 240
 tttgaatttc tcgagagctt ccgatgttta atttcgagcg tatcgatata ttataagcct 300
 gaatcggaca 310

<210> 21393
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 21393

ctcacgctta tgatatattg atacgctcga agttgattta cacaaactct cgacagattc 60
 aaatgggcat aactgttcac acggatgagc gatacgagcg cataatatcg cgaggggctt 120
 gacattgaac aacggaagct cttgagaaat tcaaattgtc ataccttttc acaccgatat 180
 cctattctag caaatcacat atcgagagcg tcagaattga acaacggaag gtcttgagaa 240
 atacaaatga tcttaacatt taactcgaat gtccaattta ggcgcacac atatagtgac 300
 actcgggaatt gaacaacgga agctctcgag acatctagat ggtcataact tctcacattg 360
 atgtgcgatt cacgcttata atatattgat atgctcgaaa ttaaaccatcg gaagctctcg 420
 agatattcaa atggtcataa cttt 444

<210> 21394
 <211> 373
 <212> DNA

<213> Glycine max

<400> 21394

ggagaaacat tatgggatct taatcttgag ctctaataac tctaaggcta tgtttgagaa 60
acacatgaat ataaaaatca gaaccaatga acgaaaatgc acaacattta accaaaaaaa 120
tacattcaat tacgatgtaa tgcatoctac cactctgcat aaactataca tttcacgtct 180
cttgatgaag atatcacatc gactagtgtt gagaccacaa taatatatat aaataagaga 240
caatcctcat cttacaaatt gatttcataa agttgagtta gattaataac tcacataata 300
tcctagcgat tcgttgcga gtgttacaga tctcacatct attatggtag gtgcgaatta 360
ttgaacctca tct 373

<210> 21395

<211> 414

<212> DNA

<213> Glycine max

<400> 21395

gacctaacaa actcagcttg accccttaat cagccttgag actattgtac taataatttt 60
agatacataa cattatttag attagtggcg ttcacgatga tgaatatgcg atagtctgca 120
gccaaagtgt taaagctgct gctggggcat ctgatatata ttaacttgaa ttataagggc 180
gtgatgatta acttgtgtgc gcgggcagag ctgatgtaac aaagcaacac gagcaacctt 240
atcgttcata tgggggggag ataatacaaa acaatgaatg ggggtacgta tatctgacta 300
gaacatatgg aatagaagtg gcattgtgtg atattataga tagttgataa tggaaccgaa 360
aacatctttt attttattgt gaggaatagg gatggaacat actggagtat aacg 414

<210> 21396

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21396

tttgcaagct tttatccatt tcacacgaca gtaacttttt tctcggatat ctgattgagt 60
cccgtaatat aacgagacgc tcgaaattga atattgaagc tctgaactag ttcaaacgac 120
aataactttt tactcggatg tctgattgag tcccgtataa tatcgagacg ctcgaaattg 180

aatgttgaac ctctgagtaa attcaaacga caataacttt tttctcagat gcttgattga 240
 gtcccgtaat atatcgagac gctcgaaatt gaatgttgaa gctctgatcc aattcgaacg 300
 acaatacctt tntactcgga tgtctgattg aagtcccga tatatcgag 349

<210> 21397
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21397

tcaacattca atttcgagcg tctcgatnat gacgggactt tatcagacat ccgagtaaaa 60
 agttattgtc gtttgaattg gctcagagct tcaacattca atttcgaggg tctcgatata 120
 ttgcggggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt ggctcggagc 180
 ttcaacattc aatttcgagc gtctcgatat atgacgggac tcaatcagac atccgagtaa 240
 aaagttattg tcttttgaat tggctcagag cttcaacatt caatttcgag ggtctcgata 300
 tattacggga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 360
 gggtcaacat tcaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 420
 aaaacgtta 429

<210> 21398
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21398

agctttataa agaccatgat aaatagcaat gagttatgca tgcatactag ttgtaaaacc 60
 acagtaccct agagaaggca gatattcaat tactaagata gtgtcgaagg atatcgtcga 120
 agcctaaacg accaagactg cttttggaac tcccatcagt gttgacctta ataaaaaaaa 180
 aaaagacctt gtggcggctc ccaattgact tgacaagaag gttgaatcta acaggcatgt 240
 tgaaaggcca ccatcatatc gctatagata gtttgaacct gattaataag acgccaaatg 300
 tctagattct tatcgtanaa aactgaagca ttctttgcct tccanagagt ccaacatgtc 360
 accacatata atgaactact atagc 385

<210> 21399
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 21399

acccctcttg ctcgtactaa cgatggcagc gttccgatgg aagagctttg aggagaacga 60
 ggatcacccct gaactgttct ttcactttct ttgaagttaa tgctggaaga agtctatttg 120
 tatcatttgg aaagaagtaa gcttaagctg cctaggatat tatttttaat gttgagaaga 180
 ttttcttggg tattgcatga gtgcctcatc cacgaatgta aaattatttg tctggctgaa 240
 gaccttaaca attattagtt gttcgagtga gttcatgcaa tacttacact aagacattta 300
 ttgcgattga tggagctgga aagcgattag ctgatgaagt gagtcccgag acatgcatat 360
 gtatgtatct caagtt 376

<210> 21400
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21400

tgtttgcttg cttgttatgc atgaaatagg tggactatth caaaaacact ctatcataca 60
 ctagtgtcca ttttttgaat gaatgaaggt tgaaaatcga actttatcca gtaagagaca 120
 tccaatgttt ctgtggtaat ccaaaaaaac ttatctgagg catagctcaa tagttcaa 180
 aatgattatg ttaagattgg aagtatgata atattacaat ttacaacgaa cttttactgt 240
 aacagttggt ccagcattcc cccgaagcct ttgtgcagca gtttcactat caatgccatc 300
 aagcctctca cctgtagaat ccaattatth tcagaaaaga aaatcacact tgtttcactt 360
 cagacataaa anaattatth cctactaata attgactgaa acaagctgga aa 412

<210> 21401
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21401

ttaggatcaa actntnttct ctcttnttct ctcaactggt cttcattctt cttcctcttt 60
 tcactttctt tcttcctttc tcttgcaaaa attttggtga ttttccattg atgatgatca 120
 tggaaggcta aacacttaat caatccaagg atccactcca agcaaggctg aatttgagtt 180
 ctgggttagt atttctaate tttgtgaatg ttcattcttt tcttcattcc tattttcaat 240
 tttcatgatt atgattatgc ttaggattca aaatggatta agttattgat tcatttccta 300
 atttcaaaat ttaatcccag attgtttgga tattttccaa cctaatatgc gatctcaaac 360
 aatttaggga tgtattcgat tgaactatct ctaatgcatt ngattgaaat ttcacactct 420
 gaacatcatt catagtaact 440

<210> 21402
 <211> 391
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21402

tcttctttat tctttggncc tctcatagt tgtggcatga gaaaacatgc tctattttca 60
 tctcccactc caagtaggcc tncggatcat tctttccttt aaatggagga atgttgagtt 120
 taataccatc aattcggttt tgtctaagaa caccatcatt cctctctctc ctcttttctt 180
 cttcattatg atctctattc tccatttgat ccaacctctc atggagcgca tcatctcgtt 240
 gtttcattaa cctctccaaa tgttgcatca aagctcgcat ttggaattgc gaaagccnca 300
 ctccatcatt atgattagta cctgacatct canacaaaca aatcaaactg aacaagacaa 360
 ttatagttgc tgtttgaata cctcaccac t 391

<210> 21403
 <211> 420
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21403

ctgagcttgt tacctatgat gaattgcttt ttagagttg nttatatcac cactaattgt 60
 tctccttttg aagttgttta tggttttaac ccactaactc ctcttgatct tttgcctatg 120
 cctaattgtt ctgtttttta ggataaagaa cgtcaagcaa aggcgggacta tgtgaagaag 180

cttcatgaga gaggtaaaga tcaaattgag agggaaaaata aaagctatgc taaacaagcc 240
aaciaaggga gaaagaagggt tgtcttcgaa cccggagatt gggtttgggt gcacatgaga 300
aaagaaagggt ttccggaaca aaggaaatca aagcttcaac caaggggaga tggaccatnt 360
caagtgttg aaagaatcaa tgacaatgct taaaagttg agctgtccgg tgagtataat 420

<210> 21404
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21404

tctgcttatg cgcataattg cttacaaacg ttctcttgca caagacattc tattaaccga 60
aaaaaatgca cccatataca atcaaggcag cttcggtacc tagattattt acacgtactt 120
ccaagggtgta tttgttactt acatcacaca cctccttggc taaattcaca tacatgcata 180
ctcaaagcat tttgggttac caaaaattgc acatgtgcac atcttggtat ttcacaaaact 240
tcatgatgaa tcttgactat ctacacaata aggtgctaca ttgtatgctc ttttcaagtt 300
attgctacct aaagccgcat gcaaattcca gtatatntc ctttggtgac taaaattgta 360
ttcagattaa aaggtataca ttttt 385

<210> 21405
<211> 436
<212> DNA
<213> Glycine max

<400> 21405

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attttccacc atggagatgc agcgggaagac aaaggagaag aggtgaagagg cggcgccatc 120
cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataaaaa 180
gcttgagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240
cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ctcaagac 300
tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360
tccttgagaa gctttcttaa gagaacttcc ttgagaagct tctttgagaa aacttcttg 420

<210> 21406
 <211> 299
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21406

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 accctcctgg tatctgagaa tcacttaaaa ttagtgagaa aaattgtttc cgtgaagaaa 120
 atccaagccg aggcgcttcc gtaacgcttc cgagacgttt ccatgggtga tttcaagaag 180
 attntctacc gttcttcgtc gttcttcggt cattatattgt cgttcctttt ggaaagaact 240
 acgtaggttt gatttcctct tcgatggagg gtacgtaaga gcaaaagccc cacttttgt 299

<210> 21407
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21407

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 agccctgggt gagacgagtc actgcttcaa gttggtcaat ggtgggctga cagatattgt 120
 gttctggcat ggtgaggtag aggaggagga ggctggtcag accaattgtt agtgttgaca 180
 gttgtatgtc tatattaaga attaattaga caactggatg tttatttttg caattaattt 240
 tctagaagat tgaataattc agatcaagat catattattc caattttgat atgcttttat 300
 tattattttg ggtcagaatc aaatctctct tatttgatct gatccctttc tatttacttt 360
 tctttctgca tttattatgt aattggtagc cttgcctata tatgtaaatc ttttattcct 420
 aaataatata caagaattat tctt 444

<210> 21408
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21408

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 atacatttta gcaaataaca acacatgtca atgagtttat taagaaggat ctcaatttga 120
 ttctaacata atatatcttt aaagaaaaac aaaatttttt aagtttgatt aaattttgaa 180
 cttagaatta attttataat cgatctaaaa gattaaaatt ataaaaatct tacaaaattt 240
 caaaaaagaa aaataaaaaa tccttattat taatatgggt aaaaaattat atattaaata 300
 aanattgaa ttcaccttcg ttaataaatc ttatatgaag ttcaatcaat aataaagtaa 360
 tgacaacaaa tgtattatta gcttttaagg gattttattc gatcacat 408

<210> 21409
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21409

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 tttttattagc attttgtttag ttgaaataaa ggcccaaact tgtgttgaag tggctgtcaa 120
 ttctcttttg atttgcacca cctatgggct tgttttaatt tgaagaaatt aaggtttaat 180
 aaggtagaaa ctctagggtt gtggctgcct cttggctgac taggagttgc acatctttcc 240
 acatgttttt gtgtcttaat tctagtttta attaggtata atgacaccat caattgttgt 300
 tattggtgat aatttgtctg aattctagtt ctaattaggt ataatgacac catcaattgt 360
 tgttattggt gatcatttca tcttttcata accaacttga tgccattcct ttntatgggc 420
 tgcgcathtt ctaataaa 438

<210> 21410
 <211> 448
 <212> DNA
 <213> Glycine max
 <400> 21410

tggtctctgt agatcttcac agaacaaaat ctcttagatt tctctggaac ttataccttt 60
 ctctctctag aaaccctaga catgcaaagc tctgaatccc actccaaact ccccttctaa 120
 aatctgattt cataacttaa taggtggcct tgttcatact cgtgcgctta gcacacttat 180

ggaccgctta gcgcacatta gtgaatcttg gcttagcgcg tgcctttctc gcttagcgga 240
tgaactgaag tgggtgcgctt agtgagatga agtgggtgtgc ttagcaaacc tgtacaactc 300
atcttcttcc agagtcttcc tcgcgcttag cccatgagtg ttgcgcttag cgaacgctcg 360
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atgaacctga aattgagaca aaatgatt 448

<210> 21411
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21411

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agggtgtagt aagcaaatgc tcacctcccc ctctaaaatt taattggatt gggcttctac 120
caattcaatt aaatttattt cccaacacac atatcaaata ttcacttagt gcatgtgaaa 180
ttacaaaact acccttaata caaaaactag tctaggtgcc ctaaaatata agagctgaaa 240
aatcctatat ttctagggtg ccctacctac attatggagc cctanataca aggaccaaatt 300
ataatgacat cctagtctaa tatgtataaa gataattgga c 341

<210> 21412
<211> 451
<212> DNA
<213> Glycine max

<400> 21412

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attagtataa taaaagcttc tatattttgc atctaagatc acacaagatt cctgtcggta 120
gtctgaatga gaactttata gaacaccctt tttgaatttt aagtatgaat ttttgtgaat 180
tcgagtaagc aagtaatgat attactgtgt aaaaaaagat aatgatatat attcctctgg 240
acttaaatat atataaaaaa actaactcaa tttaatgttg ataattcat gaaaaaagtt 300
aattcatttt ttaaagtacc atttatatta attgcatagg acaaaaaaaa taagggttatt 360
gaaaataaaa ctctaattaa ataaagagta ttttggggat attataatta aataggagag 420
aattaattaa aatttactta tattttaatt c 451

<210> 21413
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21413

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 ttgatgtgtc attattttct cctatttctt aactcttttt atcaccaatt taatttctga 120
 ttaactctaa ttgtcgaatt tattatttag ttttatcaat tgggccact tgactaattt 180
 ggtgttttta attcaatttc aggataatta taagcaattg ggctgagcca aattggactt 240
 gaagagagaa gacaatttta ttagatttcg tctaatttca ttntattgca ttcagttntt 300
 atttagtatt tttatttcat tntagaccan aataatgtaa tcaggcccag tgactntgag 360
 tgatccttat aaatagcagc cttgggattc g 391

<210> 21414
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 21414

gactcaagct tgtacttgta cttgctattg gcagattaca tgcattactt cttcctttct 60
 ctctcatcaa cgtgagtggg cattttattc tttttctata attacggggg taataagatg 120
 aaacaatagg gtgatgaaac gaataggggt tcctctcact gcttgaagca tccaattttt 180
 atttttatth ttatggtaga acatattatc atatcttgga agcatcagct gtgactcggc 240
 taaaggctac cgcggtcttt gagccagatg ggcgccccaa atgcttgccg atgaactcac 300
 cggctaacat gagctttccg agatcaacgt tggttttcac cccaagtcca ttcagcatgt 360
 acacaacatc ttcggtagct acatttcctg aagctccctt ggcataagga cagccaccta 420
 gaccagcaac tgaagaatca actgcactga tccccatc 458

<210> 21415
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21415

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agctntttct ttgactttta ctgggttata tacgccatgt tctaattttt cactatagaa 60
tagattggta gtatatataa tatatgaatg gctatttgat gactgattca gtcacttaaa 120
tgaattttgc aaattgacat ttgcacagaa gttttgaatg ttgatgaaat aaatttggtg 180
tacttaactt aaccccatga tttgatgtcc cgaataaaca atattgtctt gtcaatatga 240
tacgtagtgt ttaaggtaat ctccacggta ttgaagtgtt tttaaatgaa agacaagcca 300
atatctttta gtattttttt tctcaacaaa ggtgtatttt caat 344
```

<210> 21416
<211> 268
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21416

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cttctccacg atgtgagctn tgatatgaga ggtgtgtgtg tttctaaact ctagctactc 60
acagaagtgt tctcaaagaa gcttctccag gaaggtgtct caagaaagct tctcaaggaa 120
gctacctagt ctatacaata gaagcatgtg taacacttgt agtaacttgg atgaatgaga 180
gtcttgtgcg acataacttga aagctccact tctgtcccta ttttattcct tcaattacgt 240
gctccccctt ctctctttct ctctatct 268
```

<210> 21417
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21417

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agctntttta cattctaaac atgcgaacta aagactgaaa ttaaaaactg aaacagaaat 60
ataaaccocaa attataaagt gtactaaaag caggaaatga taataaaagt gttcaaaaga 120
caggaaaata ggataaaagt cctgtcatgg gtccctgtcgt gcaaaaggga cataatccat 180
agctgctgca tcctcctcct ccttagagag ctccagtacc agtggtgtca ctggggatgc 240
ctgcggagta gagagctcca gcacaggtgt ggtcactggt gatgcctgtg gagtcgtctc 300
tagagtggcc tccgcagtgt cctcctgagt agctgggtca gtctctgggt caacctctgg 360
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catgtc

366

<210> 21418
<211> 440
<212> DNA
<213> Glycine max

<400> 21418

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tctgctttgc ttaatgacta tcaccttgag gacaaggatg tttcccaagg gccgcgggat 120
gatatggaaa acacatatca cagagtaggg gtacaaagag aacattctgc agagggtgcag 180
aatatggaaa agcccataag gagagtaatg aggccagctt accttcaaga ttatgcgtaa 240
gggtagaaaa gggattagtg ggatagtgcc gttagagcac gggacaagct taacgggtatt 300
gattctgtga tattcctctt gcacaaaaaa gataagaatt ctgctagcat aggatagtat 360
gaataacgtt gtatataaaa tcagaatcat aaatgagaat atattttctt gccttattcc 420
ttctcccctt acttctatgg 440

<210> 21419
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21419

cccgggatcc tctgaggcga tctgctgctg nctgcttttc tgagcactga tagggaagct 60
tgaggcatgc tgggtacaat cttttctcca cttaagatag actaaatcct taaagcaagt 120
tctgtggtaa tcagctctct tccatgctgc ccaaaactct ggaagacaag gaatcatctg 180
tcaaaaaaac cagaataacc aatttgagat aactatccac tacatgccac attataactt 240
tctcttataa gaatgcctat acataattat attatcataa agttccccct tttcttacat 300
acacattttc ccctgtgctt atcatataca canatgaatg aggaaaactt acaataagaa 360
ttctaggtc tgacctctca tcattgcctt tctttccttt gaat 404

<210> 21420
<211> 358
<212> DNA

<213> Glycine max

<400> 21420

cccttctaca caaggctcta taccggtagc ttagtagctt gctcgtgagt tgtgctgcgc 60
tatatttttt gcttaaaaaa aactacttca ttgggggggc gaagtggaac ttctgactct 120
ctttatttga agactataca taaaaagcgg attttgctg ttataaaatc acacgcacat 180
gtctttttat ggaatatgat gatggggtgg gtgatctttg cttgcaagat tggaaggatc 240
ctaacgcgac cgacactaaa catggtatgt gttgtctgac aatatgaaat gaagagtatt 300
atgatatcgt ttaccgaatg ttggtgccaa tgcaatggct tactggggga atatagat 358

<210> 21421

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21421

agctttttgc ttcttgtcat aacaactttg cactattctt tgggattctt ctcagtattt 60
gctccaaagc tactggatga cttctcaact atatgcttag ccagttgacc cacctggatc 120
tcaagatttt tcagggctga ctcagtgtc ttatgattgg atatagtcac ttgaatgaat 180
tgagccaggg tctcctccag cttggtagtc ctctgaaaaa gagtaggcc ttgttgaggt 240
ggcctattgg aaagttcacc ctggtcctta ttgaattgat tgccaagggtg tgatcttcat 300
tgaccttgct gattgtangg accttgctgg aaacctgaga atcctcttgg ntgacccttg 360
ccttgctgat tcccatgtan taacttcat 389

<210> 21422

<211> 442

<212> DNA

<213> Glycine max /

<223> unsure at all n locations

<400> 21422

ntggaagaaa gtgatgaggt acaagcccta taggcaaate ttgtaagagc ccgggtagtc 60
aaagagaagt tcaagtccat agccatcaaa gtctgaagag agtatgatga actaagggac 120
gttaatatgg ccaccgatga agccttgga tgagaaacca agaaggcccg aaaggaagaa 180

cacgacccaaa gcaaagtttt gaggggcttt atagggcagc aatagtgagc tcaagctccg 240
aagaggtgaa aggaatcatc atgggtcaaa ggcattgatct tgaaggatga gctaaagggtt 300
ttccttatgt cgaanagaaa tttgtcccaa cagttaagcg agactgaagg gaatatgtgg 360
gccatcatcg ataagtgcac agagaagcta aatctagcgg cgactcacga gcaaaggcta 420
gaggatgagt acgccaagat at 442

<210> 21423
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21423

cgttttgtct gcttatttca aaaggaaaaa gtattgacat ccaatttcct caaccaattt 60
ataagatttg cggaatacat gcaaaatatt tcaagtctga tgctcaaatg cgtattcgcct 120
ttacaagtta atgggttgat tgaaattagt aaagattatc tagatgaaat gtgacaacat 180
atgaagggtta gtatataatt aggtcaatta tattcaattt atttatatat ttgaatatta 240
gttatatctt caaattagtt tgataatgta ttttggtagt atataagttt tgcttttttt 300
gatgaaaaca tgtaatatataa ggatgctntt agtttacttg atgagacgac agaatatgca 360
atgaagcata ttcaattctca atacaagaat 390

<210> 21424
<211> 445
<212> DNA
<213> Glycine max

<400> 21424

tactcaagct ggactttggt aggcaaaatg tctcgatgt catgactatt atttggtgca 60
tcaagacgtg actatcatga gactttaagc ttaccaactt aagatccttc aactgcacaa 120
ggctcttaat atttgaagag tacccttggt gaactttgac atgacacata cactaacaaa 180
aactcatctt ctcttttctg ggcaaagtat gacaagctga aggcaagtat attttttacc 240
atcagacctt ggatataact gcactcgtat atccatgcc aactagatctt gacgagtatt 300
caaaccatct ttcattctgc cttgaatgtt aaggagcgtc ccaataacat tatcacatac 360
atctttctct acatgcataa catcaatata atgtctaaca tctagatcag accagtaggg 420

aagatcaaac aaaattgacc ttttc

445

<210> 21425
<211> 397
<212> DNA
<213> Glycine max

<400> 21425

tttcttgta aaacctaagt aagcctgctg attcctttat ggtctccgta atttactggt 60
gttgctacct tcttccactt gtattatatg catttggcaa aagatcacct ttacttcctt 120
tacccaacag attaatacaga aagtgattgt ggatcagaaa atcaaatcac ttgtattgtg 180
tactgatata aatagcttcc tcatcaaaat ccggtgccct tcaactttggc caaaagggtt 240
catctgttca acatctatgc taggcagaat tcccttttca gaacaagcat taatagaatg 300
gcctcctaga agattaatat cggtctctat gggatatggg ctgcctaaac ttataactat 360
ggttaacctc aatactttgt tgttgaaaaa gcttctt 397

<210> 21426
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21426

nttaacactt tntgaatgan aacttatatg atgttaatat tccaattatt cacataaaaa 60
gaaggaaaat aagagagaaa aattaacaaa tctacataa gtcaatccca aaatatacct 120
atacataaca gttattattg acaggctgca gcaactctag actcttgtaa acttatttta 180
aatgaatcca tatttttaat agctctagga tgtattggaa tctaattctaa tgtaccttaa 240
tccaatatgc gctttctata aaacttatgg atagacataa aaagtgttac acaaaattcc 300
agtttgaatt taatggagta ttttcttttg caagtgaag ttatttggtt tgtttgtctc 360
tgtttttctt ttntgttggtg ttttggaagc tatattcatg aat 403

<210> 21427
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21427

tttttattgn aatcgtgaaa ttcaggacag tactctaatt tctgaaattt ttcggataaa 60
aatggtcatt gaccagtccc ttttccatga cttaaccaa ttaccagtg acggtgtacc 120
atttgaaggt tcaactgaatg actactggaa atttgatttc tctgcccagtg atgcccggca 180
gttggtttgc accaacaatg cggatatgac cggacgtctt cttgccgggt cattggcttt 240
tgaaagccgc atccttcact atttaattga gcgtactttg cttgcactgt c 291

<210> 21428
<211> 436
<212> DNA
<213> Glycine max

<400> 21428

tcttcggggc catttctgc gagatctaac atttagaagt tagttttaca agacaatgct 60
tatcttaacg caaaaagtg catgctaate cctctgattt tagaatgaac tcatgtaate 120
tatttatgca cacgcgtatt tgtggaatat cctactattt atatcaacgt agaggccatc 180
caacacatcc taattctcat acatatatat gcatttgaaa agaacataca ttctcacgcc 240
taaggcatcg cgtcaaaaact cacacttaat tatatcctaa acatttgcta atacaaacta 300
cctacacaca ttgaaatat gtatcataca aattttattg tttctgcata ttggaaagct 360
aattacatcc tgcacacact tgcattcaaa agggaattcc atgctatcat acatccattt 420
aggaaaataa tcattc 436

<210> 21429
<211> 400
<212> DNA
<213> Glycine max

<400> 21429

agctttttca ttatctatgt ttggacatag acggcataat agaaggatat tctctaaaag 60
tttcactttt caaaaatcaa ctttaaagtt caaataacga gataattttt catgattgag 120
tctattttac atagtaattc tccatcaaac aaaaaccttt tttcatccac aaagtattca 180
aatgatagtc gcccaaaatc ttatccattg tcatcaatat gctctaaata attacatctc 240
ctattaaatc cttgcacggt cattagacc ttagagctta tctattgttc tcaatatgtt 300

ataaatactt tcattatcgt tagctcacat caagacgaca tgccaccta cctctacact 360
 accaagaaga ctcttaatct tcatatatgg atatatcatc 400

<210> 21430
 <211> 449
 <212> DNA
 <213> Glycine max
 <400> 21430

tgtagaccta acattatcta tgatttataa gcaaaacatt tctcaacaaa tgataataat 60
 aacttgcaact atattatctt tttaattata gctcaaattc aaatgggtgt gattttgtat 120
 ttgaagatac tcttcacaaa atatattaaa ttgcatatat aaataatggt gttgacaaga 180
 actagtaata catcccatga ccccccctt tatctactta ttccatattg acacatatgc 240
 ataattaata ttaagttata aacttataaa aaacaaattt ttatgttggt aaaaaaatgt 300
 caatattaac aattatctat cactaaaaaa taattaaatt cgactaagaa aatttaaata 360
 tttaaataaa atcaataaaa gacttataat ataaaatatt ataaaaagta taacatattt 420
 aattatatat tataataatt tattatctt 449

<210> 21431
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21431

agcttatctt tgtaagttgt agaagtgaca gtgaagaata cttgtaactt ttgataagtt 60
 agtgaaatct tggtaggctg ctaagaactg aacgtagtct cgggtgtagaa agtataactt 120
 catgtgtggt attctttatt gtttttcttt gtgtgttgat tgacgaagga tttgaatttg 180
 ctttttatat cttatatttg tttttgatct gttaagaaaa ttgttttctc attgtctgat 240
 aaagtctttc ttaaataat cttttctttt atttttagtta aatntgcatg agacgataaa 300
 agtgttttta gtctaagaaa aattttaaaa tttctaaaat tacaattaaa cccctnttgt 360
 tgtgtattag cttctcaact attagctaatt tgggtata 398

<210> 21432

<211> 440
 <212> DNA
 <213> Glycine max
 <400> 21432

tgtgttctcc cttgtagaac tactaactgc agtaattggt gtagtttaac tatccggtag 60
 tgatgacaat agaatcaatg ccttcacctc atcatcaaat ttaatctgca ctgattccaa 120
 ctgggcaaga atagtattaa attcattaat atgatcagtt acagagatac cttctcccat 180
 cttgaggttg aacaactggc gcatcaagta tactttgttg gctgtcgacg gcttctcgta 240
 catatctgat aacgccttca ttaagcctgt agtagtcttc tcgtttacga tgttgaacgc 300
 gacgttctta gctaattgca atctgatcac gctaagagct tgtcgatcca gcaagttcca 360
 ttcttcttgc ttcatgtcgt ctggcttaac ccttgataag ggctgatacg acttcttttg 420
 atatagataa tcctctatct 440

<210> 21433
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21433

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 gcgactggtc cctttcttcc cttcgcaact tgagttcact attgctaccc catagagctc 120
 cgcgaaattt gttccggcca tactcttctt tgcgagccct cttgggtctct cgttcaaggg 180
 ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240
 cageccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300
 ggacttcttc gtcttcttcc ggtgcttcaa aattctcttc gctgacgact nttaacttgg 360
 cgagccaatc taaacctcgt atcggaactt tc 392

<210> 21434
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21434

tgagaatgga ggatttcctt gaggggtctc tcttangcat ttatggaaca cagttccaaa 60
 ctcaaaaatg gaggacacat gaatgacaac gcaattcatt catggggctc cgaaaaagg 120
 taagaatgga ggatttgctt gaggggtctc tcttaggcaa tcatggaaca caactccata 180
 ctcgaaagtg gaggaccac gaacaggcct aagcaataac attcatgtgg ctccgaaaaa 240
 ggatgagaat ggaggattgc gttgagggtc ctatcttatg caatcatgga acacagctcc 300
 aaacttgaaa atggagggtca catgaatgac aacgcaattc attcacggng cttccgaaaa 360
 gggtgagaat ggaggattgc cttgagggtc ctctcttang caatcatgga acacagctcc 420
 aaactcgaaa gtggaggaca catgaac 447

<210> 21435
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21435

agcttgttct tggtttatac atgattgata catgatttgg gacttgtatg atttgatttg 60
 ggcaagattg gatgagggga agtgtgggtt tcgaaatctg cattttgtgc agatttttgc 120
 tgtgaaattg tgcagcagga ttttgacaaa gtgcagaaaa atactatgca tttgctgggt 180
 gtggaaagag cagtgcagaa tgagttctgg atgtttgcta gtagatccca acggtcaaaa 240
 tgtaggctta tgtactagag acttccagta aaaatttggga gtcgatccaa cggttaacga 300
 attggaacga aggaattgtt actggnggtc ttaagtgaga aaagctgtga tcttggtggt 360
 gtttggcaga gttttctgct ttgtctgttt cttggctgga tag 403

<210> 21436
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21436

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 gggagccaag ttatcccttc tgttctagac ttcaaccact tgtgatagtc gtcgatgacg 120
 ccattgttac ttcccctaag ctcttattt tttgatgcaa tcccaaccg caagggcatt 180

ggatagaaga ctccaagtag attgggccag agatccaagg gaaggcccta gggttctcat 240
gagccttagg gtagatttcg agcccatggg ctaagcatga gcccgtttat ctttgtaaat 300
attagaatag gtttttcatt cgtttgggcc ttgtattttg gccattctag tagtataagg 360
ttttagcctt gtatttcgag gcattntgat tagtctttat agtagggaat tttttgtatt 420
ttcatgtatt ttgtcatg 438

<210> 21437
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21437

agctttatgg ctgagaacct atataacaac accaagggtc tagttttagg attctttttc 60
gttttangga gaaagaataa ttttaggttt tgcaattcca gtttttacta ttcacgtaac 120
aatcgttttc tgcttcaatc tgcaatttcg ttttctactg attaatggaa ggccaagtct 180
ccaacgttgt tttctcttga ggatcaagca caactctctt tgaggttntg ttattactat 240
tgaattctga tcagttnttc ctcttcacca attactctat atttgttgta ttaatccatg 300
catgcttagt gcttgattaa ttgtctctgc gcttaattta cgttcatgct taatgatcna 360
gtttcgtcat gattaattg 379

<210> 21438
<211> 430
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21438

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aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gctcaagtat 120
atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgctctt acctgaacg ggagtcaaga acttccccga ttgtagcca 240
aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360

tggtctctca gaccttgact agatacgact ntcctttttg aaatanaatg agttgggtccc 420
atgtttctac 430

<210> 21439
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21439

agcgatgctt agcattatat ttgggatgac ccctatttgt ggaagttgtg tagtgaccaa 60
gttattagga gatgcatttt ggacaatgag attgactcgg tctgaattt ttgtcattct 120
tccgcaccag gcgaccatct tggatatacag aggatagctc gcaggggtgct tgactgtggt 180
ttctattggc ccaccatttt caaggatgca tggagaattt gtagtacttg tgagtcttgt 240
cagagagcag gtggttcact ttcttggaaa cagcaaatgc ctcaacatcc tatgttggtc 300
tgtgaggtgt ttgatgtata cggtatcaat tntatgggac ctttccatgt atctnttggg 360
tntgtntata ttctccttgc tgct 384

<210> 21440
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21440

tgtttttaaag acccaattnt atcaacatct atgtcttctt gttgttttga ttctaatacct 60
tgtgttgatg aattagccat caaacacaac ttatcttctt cgtcctttgt tgaggcttca 120
tcttcagatt gatccttaga taactcatca actttcagag ctcttgggtgc aatcatttgt 180
ggtccacact cagtggaacc ttcatacaat atagaaagaa tgtccaacat ttctttggca 240
tttttgatat agcgcacctt tgcattgctt tttctgataa tgcacagatg atggcgtttc 300
ttgcttttga gttcaacaag tatctctgtt tttgcttatt aatccatctc tgtcttggaa 360
gctcattgag gttgttatca taaggattct agtttccatt ttctattaca tccatcgat 420
cactatggca gta 433

<210> 21441

<211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21441

ggctttcaaa ggctactctt tatcctacaa atattgntaa tctgctaata gattcaatct 60
 cccctcacga taccactatc acaggtgcta ttggattttg tctatataga tatctatggt 120
 tgtggatgg ccttgaactg ttattaaatg ttattaagtt atttgaagca tgcatttact 180
 gtatcttttt gtgattaaac tatcctggat tttttcttgt cataggagga catttcttga 240
 gtttattaac tttttaaaat tagttaatca gatgatgatc attggagaaa gttgatgggt 300
 cttgctttct tgaacattgt tacatgggtgc atgggaaaag acatggactt atattttcaa 360
 ctatt 365

<210> 21442
 <211> 424
 <212> DNA
 <213> Glycine max
 <400> 21442

tgagtcttag tataattggt gcataaact tatgaattat ttattatgaa attggtgaag 60
 tgttgtcact gtcacgtctt gactcgagtg tgtgattcat gtgtaatgtg atcggcgatt 120
 gaaaaataaa ttttaaataa taaagtggag aagtgcacat gattgcatta agttgaacta 180
 tgtgatacat attgtcataa ttgatttctc ttatggcttt ggatatctgc attttattta 240
 caaatgtgac aactcactcc tgatgtgtgt ttgtgtttgg gctaaatgcc attttgtttc 300
 aggtgagcta tcctatgatg atgatcatgc taaaatgga aacgcttagt cttactcatg 360
 gaaattctct gatagatgtg acattgatgc atggggctga tacttcacat gttataatta 420
 catg 424

<210> 21443
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 21443

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ctactttaat cgattacttc tctcttaaaa tgcgcttcaa aagtgatcac aactttaat 120
 aaaaatagaa taaggcgtcg taatgggtgc aagctatgta attgattaca tgaagaatct 180
 aatcgattac attgttcttg aaatcccc aggtggggg aagaacacta taattgattg 240
 aatgataat ataatcgatt acttcttaca cataatcgat tacattgtat atttaattga 300
 ttacatgcag gtataactgg tttctctata aatagacacc ttgtgttctg ccatttaata 360
 acatctaaca acttgtgaat gtg 383

<210> 21444
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21444

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 ttttcaccat ggagatgcag cggaaggcaa aggagaatag gagaggggag gcaccatcca 120
 ctatggaata agccaaggaa gaaggagctt caccaccaag aattgccatg gataagaagc 180
 ttgaagagga tgctttaatg gaggaaaaga aagagagaag gggggagcac gaaattgaag 240
 gaataaaaga gggagagaag tggaactttg aagtgtgtct cataagactc tcattcatca 300
 aagttacaac aagtgttaca catgcttcta tttagagact aggtagcttc cttgagaagc 360
 cttcttaaga aaacttcctt gagaagcttt cttaagaaaa cttccttgag aagtttctnt 420
 gagaaaactt ccttga 436

<210> 21445
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 21445

agcttgtatg gtttttgtct cacgattgtc acatgctcat gcaataattg ttagtcgtgg 60
 ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgcccg tgcttttctt 120
 tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagctg gaaaatgagg 180
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacattatga 240

ttcactctat tgtgcatctg gtcagagaaa tcaaagtgtg tggctcctgtt catacacata 300
 attcaaattc attaatatgt aatgcatata ttggatgaaa gctttgaaca tggaacttat 360
 ggcagttcat tctatattgt tgcaagtact cctacttct 399

<210> 21446
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 21446

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 ccaatatgga catattaaaa aaaattatca taatgggtat ttttttttaa aaattacaaa 120
 aatgaataaaa tcatattttg atataccata tcacaatgaa aaaattgtat atcaaaatac 180
 gattttactt ttgattttgt taaaatcatt tttattaaac aaaagtgaat atgtatgtca 240
 aaatacgatt tcaatttttt tttcctaagt aaatcggtga attttttttt ctgacaaaat 300
 tgtgttcaaa tacatgattc ttaaaataat taaaaaata ttgaaattat atgtgcatat 360
 atgattttta tgttccaatt ctttggaag aaaatcattc tttgaagtac gatctcttca 420
 taat 424

<210> 21447
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 21447

agctttttatc aaacaggctg aagaggataa tgccattcat aattgatgaa agacagaccg 60
 ctttcatagc tggacgacag ctgctacaca gtgtaatcat cgctaatgaa acagtggacg 120
 aagccataag gggcmetaag acatgcttgg tgttcaaagt agattttgaa agggcttacg 180
 actctgtttt gtggaacttt ttactataca tgctgcgaag gttaggggtc tacaataaat 240
 ggattcagtg gattgacggt tgccctaaat ctgctcggt ctgggtgttg gtaaattgaa 300
 gccccacctc agaattcatc cctcatagag gccttagaca aggtgaccca ctagcgcccc 360
 tattattcaa cattgtagat gaagccttaa tgtgtctca 399

<210> 21448

<211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21448

taactaactt aaccaactta naactaccta actgttacat gttataacag aataatagaa 60
 aacagaaaaa taactaagtt ggtaaagtct aagagaacct aactaatggt tgtaaatgaa 120
 ccaacatata acactatggg ttgctaacac tacaatttgt tgatttcaac cggtaaagtt 180
 tgaaaaaaca tagagtatct tttgaatttc aaaattttca attgcattgc atgattttga 240
 tcattgcata tttgagtttt gaggggtcgt gtgtttttct ttggaggatt ttgttctgtg 300
 tctgtggtaa atttttctaa ttgttgttgt tcaaggagtt caaaaacttt tcgagatggg 360
 gagtgctctg aagttcgggt gttaaaattt tgctatg 397

<210> 21449
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21449

tttcttttgg tatcatggta gccatcagag aagacattct atttccactc ttatctgtct 60
 gcataattaa tcctttcgca gaatgatata ccctacactt cccatgttga atcaaaatag 120
 tcaagccttt ttcttgaagt tgtcctatgc tcaccagaaa ttgcctgagt aaatccactc 180
 acttgcataa gaatgatacc tttttccaca acatccattc tgggtgttatt gccaagtttt 240
 acagtttggc taaagctttc atccagttct gagaaccact ccttgtttcc aatcatatga 300
 ttgctgcaac cggagtcaag gaaccacact tcttccattt tgtcttgctc cagggtcaaca 360
 taagacatta ataaaaaatc tttca 385

<210> 21450
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 21450

ttctaggata acttatgaaa acggtttatg gcttatactt taacagctta accctatctt 60

agtttacatt gaatccttca tcacacaact gactgatgct gatcagggtt gcagtcagtc 360
 ccttcaccag cagtactttg ttcagactag gaagtcctac atgaactagc tntcccatte 420
 caatgatctt 430

<210> 21453
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 21453

agctttatct caaatttctg gctaacttat cttttattcc actaacgaca gagaaaggat 60
 ttaaagtgtt aattaatgta gttttaaaag gatgttgatc tctccattgc gtaggcaaga 120
 gcaagacaac gcttaccaaa caaaaaccgc tcttaatttt taaaacatat aataaaatgt 180
 tcccttatta taataatcaa attgacttca attagcataa aaataatagc ctttagtggg 240
 acaatccata gtaacctagg aaactcagta caaatacaca ttaaaaatac aaaagcccaa 300
 ggatataata tgcttcaa atttgttttc cacactcaaa ttgccatata acgggtgaat 360
 aagtgaattc aaaccaagat ctaaacaaaa agctatc 397

<210> 21454
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 21454

tgagactttg agaaacatga agaaacaaaa caaaccatt gatgtggagg gggaaaaaaa 60
 ggggattttg aggagggaat tgtgatgaga ggttgacaaa aaagaaaagg gtatgttgag 120
 agtgaatggag aagtgaacaa aaaatgagaa tgatttgaag aaaaccacac aaactgaaac 180
 cctagagggg gagggaaagc ttgcttacc caccaaaagg tggagacatt tttggccttt 240
 gatcaaaagg gtgtggcttg gcattgagaa cgtgtggagt ggggctggcg aaaaggaaaag 300
 gaagaattat acttttcgtt tcgtttggga gcacagcatc gaaggaaaat ggtggaagca 360
 agcaagagtc caaagggaat gggtttgtgg tttgttctcc cgagagaatg acagtgcacac 420
 acgcacacgc agaaacagtc acaggg 446

<210> 21455

<211> 394
 <212> DNA
 <213> Glycine max

<400> 21455

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agcttcttat tgtaatcttg aaattcagga cagcactcta atttctgaaa tttttgggat 60
aaaaatggtc attgaccagt cccttttcca tgacttaacc aaattaccca gtgacgggtgt 120
accatttgaa ggttcaactga atgacgactg gaaatttgat ttctctgccc atgatgcccg 180
ccagttgggtt tgcaccaaca atgaggatat gaccggacgt cttcttgccg ggtcattggc 240
tattgaaagc cgcacacctc actatttaat tgtgcgatatt ttgcttccac ggtcttccaa 300
ccttgccctg gtttctgagg aagatctaata tatcatgtgg gcctttcata cagggcgctca 360
acttgactgg gcacacttag tcacatatcg catg 394
```

<210> 21456
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21456

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tcctcggggc catttcctgc gagaacaaac atttagaagt tattttttaca agacaatgct 60
tatcttaacg caaaaagtgt catgctaata cctctgattt tagaatgaac tcatgtaatc 120
tatttatgca cacgcgtatt tgtggaatat cctactatctt atatcaacgt agaggccatc 180
caacacatcc taattctcat acatatatat gcatttgaaa agaacataca ttctcacgcc 240
taaggcatcg cgtcaaaaact cacacttaat tatatcctaa acatttgcta atacaaacta 300
cctacacaca ttgaaatat gtatcataca aattttattg tttctgcata ttggaaagct 360
aattacatcc tgcacacact tgcattcaaa aggggaattcc atgctatcat acatccattt 420
angaaaataa tcattcacac ttggcaagg 449
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<210> 21457
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21457

agcttttcag ttgcttatcc aaaacttcaa gggttgatga gttaacaagg cattgtggaa 60
 tggttcctgt caacatgttg tgagataagt tgagaatctc aattgcactt gcattgcaaa 120
 ttgaggaaga gaagccacca gtgattgagt taaaactaag atcaaggtaa gcgagtgggt 180
 tcttcacga gaattgggtcc aatgattgcg tcaatagggt atgagagagg tccaattcca 240
 ataacaatga gttcgtttca tgcaaccaat ttggcactct acctttaagt ttgttattgg 300
 acaaatggag tgattcanaa atgggactnt tcccgataa tttggaaatt cagttaaatt 360
 catagatgaa tagtccaatc tccatanacg ggagaaatta tacttgacat tgg 413

<210> 21458
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21458

ntatggtttc gcaaataatt gaggttttct gcttataaat ttagaagatc tcataatctg 60
 tgaacatgag ttgcttttgt tgcactttac atgagcaatc tacacctttt ctactatat 120
 tggggatatgt aatttatcta aggaacaat taactaacca aaacagaata aagcaatcct 180
 tgaagtctca taatttgaaa ggaaatcttg cagaactgga gatgtgacgt catttttctg 240
 aacaaaagc atctgacagt tggaaaaaga aaacagatta ataactgttt acaaagttgt 300
 ttgagaccag tgataccac ttaaacaaaa ttaacaatct taacaacagc aaattcagca 360
 gacaaattat aatcaagtgg cagaaaacaa ttatttatta ttaatgtaat gtcacgtact 420
 gctttttgtc attaaaaaaa a 441

<210> 21459
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21459

agcttttggga agtgcttttt ataattctag ntcttgcttg taggaagaac tattgggcat 60
 atactgcagt ttgtatatca gttgtcacat gcctatgaat atgaggaaaa tgtctctcgg 120
 aaacatgaga taactgtatt atactttatt taatcgatta ccttggctgc ctctactatc 180

tcaagaggca agtttttggg aaactcttgc cttcgttgac agcaactttc atttgctctg 240
 cttttccgtg aaattagacc gaaattatgt tgtataaata gtcagtaact gagatatagt 300
 ttctgatttg gtgtcatatc catcaagctt tatagtttaa caatcacccg tgcattgggtg 360
 gatctttatc ttgatcttaa taat 384

<210> 21460
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 21460

atgtaaccct ggaatgaacc aagacaatgt tgacaatatt tgagacagtt gattatgaaa 60
 cgacgaaatt tcctttgaac cggttaagctg gggcgtccat acattgccac tggaatgcat 120
 acaactgaac aacttctcta ttaaccatc tgaacaaata ccaacttttag aaggataact 180
 gacaaattat tacatcctaa aaaggaaggc tgtctatgat aggattctta aagcagcatt 240
 gtggcttata caaaattaga gtctacatta agaattgaag cacaaattat aatggaatat 300
 ctaactaaat tgatcttcag aataaaacat caactctgta aaaatgaata gttggcattt 360
 gcatacagca ctatacagtc ctgtaaagct gttattgatt gaataaaatc atcttgttac 420
 ataca 425

<210> 21461
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 21461

agcttggtga ataaccattt aatgaaccta tctatgcatg catagcctat atccattatc 60
 acaaagacta cctaccagca aatcattgaa attcactccc agcaccacag gcttgcttgt 120
 cattaacaaa ataaccgaat attataaatc ttatgttcag gatcttttat tcattcaacc 180
 tgctaggata acataaggaa gctgtgacat tatggcattg gactgcaacg aactacatc 240
 atgatgctat aaccacataa caaacactag agagatccta cagttaagcg caatttttga 300
 ttaaagatct agtgatgtta ttcacaacta gcaagtctag taagagtcaa tactcgatat 360
 accactacta accttacatc caagcaatca tgaatcacca ctcat 405

<210> 21462
 <211> 441
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21462

tccatcaagc agaatcatca gaaagggtcat ttgacaaatg ttcaaatacat taatccaaga 60
 gactatcggg acttaaccac caagcagaaa ctatacctaa aagtttaacc actcgataaa 120
 agcaacgagg cttaaccatt aagagcagaa acaaaacaac gattcaatgc ttaaccatcc 180
 atgtcaaaaa cttaaacaat gtttaatcac cgcggacaga agcttaccag gactttttcac 240
 aaacattgtg tgaatcaaca ataatacaag cttaatcact catgatagaa gctaacaaat 300
 gaacaatgct taaccaccac acatgacaga agctaaaatc atcagaacaa gtcgaagaac 360
 tntagaagta tntaatcaaa caccttgtag acaaaacaaa tctgaacact agacatgaag 420
 aaacttacac aaactttgga g 441

<210> 21463
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21463

gtgtgagact atagggtact cagcatatgt ggcactatgt ggcgatcggg cgatagtgt 60
 tgtcaactgt atccatacgc aaatgacaga taaatgcacc atccccaatt gccaccttc 120
 gactgagctc acgtacttac acgtagacct tatcctcgtt cttattaaca ccgggtaccc 180
 atcaatacct tctagcttcc ggcacatgca tgcaattcta catacaaaca tcatgagcta 240
 tccttatcga taatatatgg cagatgcaga taactattgc tccaacacat ttcggtgccg 300
 caacgtgacg tactcaaata ccgcagtcac attttcttcg ttgcgatagc acaaccgttg 360
 gatcactcaa aactctactg gaggccttan gactaaatgg 400

<210> 21464
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 21464

tgcagagtta gtatgatttg gaacaaatat tcacttcttc agtttgattg ccgggtcatca 60
agcatgtttt aacccttgt ggctgttcga aaggaaaaca cctaatagtt gctccagtct 120
cctcctttac ttttaactca tcttcacac tgctaaattg tgtaaagctt gatattagag 180
ttgtgaataa atcatgttcc ttgtctaaac atgtgttgga aggtacatta tcaacatcaa 240
aacatatagg cgaaaattgg gggggggggg 270

<210> 21465

<211> 317

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21465

agcttggttat gaggaagtgt ngaaggggtga aacttcctgc ttttatcggt gaccacagag 60
tggtagctgg agatatgtcg caggggtcaa gagaccttgg ggacgtcatg tgggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccga cccaaccggg gcatagttgg tcagtgagaa 180
cctgtgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg acaaagacc 240
acaaagcaag gaggcttgtg gtggctggcc aactgtgaat tttgtgtgat atgtggatta 300
tggcctcttg taatcga 317

<210> 21466

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21466

ntgcaacatc tgaaaaccta gctngaacca acaaagattt atttctagga tctagagaag 60
gcatagcttg agcatatgat cggatcacat catttggttac ctgcatatat aaaaataaca 120
acaacatcaa tattttttaa tcataacata attaacattc aattaaatag aatgtattac 180
atacttttac agatctacga aggtgttggt tccaaaaaga ggagtagttg tagattccat 240
ggtttaggct ttggtactaa cgtaagaag aagttaaaga gggatatatg agaacgagag 300
aaagtgagtc tttgagtgag tgtatatgat gacaatacat gcattgtata tatagaaaaa 360

aattaacact atcataatctt attcggttgg atcttgggtca ttgattttgt

410

<210> 21467
<211> 232
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21467

cgtttgcaag cttgtatcca ttttaagaga atgagcatgc gagtagaagt atgactaana 60
atgtcactta gtttgtcaga ttgattgtga aggaatgcat taaccgtatc ccggtgagag 120
tgtgatcctt aaattctgag agaaatgact atcatttagt actgattttt gcatgaatct 180
ctaaagtatg gattgaatgc atgaaattaa ggatgatgaa agccatgggt ta 232

<210> 21468
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21468

ntacattata ttaaaatcaa tgactttgat gtaatacttt ttattttatc tgatataatt 60
ttatctctcc tctttgtaat gagataattc ttcaataaca gttttttttc tccactttta 120
cttagttgat tttattcctg aattaataaa aaaaattacc aactaatatc cttcccttca 180
actgttcacg tataattgca atctgtgtat tattttttaa atttactctt caacggatgg 240
aaggaactac acaaagccgc taagtcacca agaataacta catccagttt ttatccagat 300
ttttacataa tagctacacg ttattnttct gtaagtgtac attatttttc tctattattn 360
ntttctatct aactcccacg caaggaagtg catatccaac tgaatcatgt actaattgca 420
tccgttggtc ctttatat 438

<210> 21469
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21469

agctttataa aatttcattt tgctgaaaca atttccatat ataaattagt tagatataaa 60